Energy Asset Management

2026 □□□□□□ 17 – 13
Istanbul (Turkey)



Energy Asset Management

Ref: 20268805_22843713 Duration: Istanbul (Turkey) Fees: 4900 GBP

Why This Course

In the modern energy landscape, effective asset management is critical for ensuring operational reliability, cost optimization, and sustainability.

Organizations face increasing pressure to balance performance, safety, and environmental responsibility while adapting to digital transformation and regulatory demands.

The Energy Asset Management program equips participants with the tools, frameworks, and leadership mindset to optimize asset performance across the entire lifecycle — from design and acquisition to maintenance, renewal, and disposal.

It combines engineering principles, data analytics, and strategic decision-making to help professionals manage energy assets with excellence, accountability, and foresight.

Through case studies, simulations, and interactive sessions, participants will learn how to enhance asset value, extend lifespan, and support sustainability goals in a rapidly changing global energy sector.

What You'll Learn and Practice

By joining this program, you will:

- Understand the principles and objectives of energy asset management.
- Learn to apply the ISO 55000 framework for asset management excellence.
- Develop strategies for asset performance, risk, and lifecycle optimization.
- Use data analytics and predictive maintenance for proactive decision-making.
- Integrate digital technologies, including IoT, AI, and digital twins.
- Manage sustainability, reliability, and safety in asset-intensive operations.
- Align asset management with corporate strategy and regulatory compliance.
- Design frameworks for continuous improvement and value creation.



The Program Flow

Day 1: Foundations of Energy Asset Management

- Overview of asset management principles and frameworks ISO 55000 series.
- The role of asset management in organizational value and sustainability.
- Energy asset categories: generation, transmission, distribution, and renewables.
- Asset performance metrics — reliability, availability, maintainability, and safety RAMS.
- Case study: How asset management optimization improved operational efficiency in a major energy company.

Day 2: Asset Lifecycle and Performance Optimization

- The asset lifecycle: planning, acquisition, operation, maintenance, and renewal.
- Balancing performance, cost, and risk through lifecycle planning.
- Asset criticality analysis and prioritization techniques.
- Maintenance strategies — preventive, predictive, and condition-based approaches.
- Workshop: Building a lifecycle optimization plan for energy assets.

Day 3: Risk, Reliability, and Decision Support

- Risk-based asset management and decision-making frameworks.
- Reliability engineering and root cause analysis RCA.
- Asset integrity management — ensuring compliance and safety.
- Leveraging data analytics for real-time monitoring and performance forecasting.
- Simulation: Managing a high-impact asset failure scenario.

Day 4: Digitalization and Smart Asset Management

- Digital transformation in energy asset management.
- Internet of Things IoT, AI, and digital twin applications.
- Data Integration and Visualization for Asset Insights.
- Building an intelligent asset management ecosystem.
- Group project: Designing a digital strategy for a modern energy asset portfolio.

Day 5: Governance, Sustainability, and Continuous Improvement

- Establishing governance structures for asset management excellence.
- Aligning asset management with ESG and sustainability goals.
- Measuring asset value and performance improvement metrics.
- Continuous improvement frameworks and benchmarking.
- Final project: Developing an energy asset management roadmap for your organization.



Individual Impact

- Gain practical and strategic mastery of asset management principles.
- Strengthen decision-making and analytical capabilities.
- Build confidence in managing risk, performance, and lifecycle optimization.
- Learn to apply digital and predictive tools for smarter asset strategies.
- Position yourself as an energy asset management professional driving operational and sustainability excellence.

Work Impact

- Improve asset reliability, safety, and lifecycle efficiency.
- Reduce downtime and operational costs through proactive management.
- Strengthen compliance and governance across energy operations.
- Enhance sustainability performance through data-driven asset decisions.
- Build a culture of continuous improvement and innovation in asset management.

Training Methodology

This program combines technical frameworks, analytical modeling, and strategic application to ensure both deep learning and operational impact.

Learning methods include:

- Case studies from global energy and utilities organizations.
- Hands-on workshops for lifecycle and performance planning.
- Data-driven decision-making and simulation exercises.
- Group discussions on sustainability, digitalization, and resilience.
- Asset management maturity models and toolkits for implementation.

Beyond the Course

Upon completion, participants will be equipped to design and lead energy asset management frameworks that deliver reliability, sustainability, and long-term value.

Graduates of this program will emerge as Energy Asset Management Leaders — professionals who combine technical insight, strategic foresight, and digital capability to optimize energy performance and organizational success.

