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Power Sector Project Feasibility, Analysis, and Execution

COURSE OVERVIEW

This course provides a comprehensive understanding of how to conceptualize, evaluate, and deliver successful energy and power infrastructure projects. The curriculum explores the end-to-end project lifecycle from initial idea generation and technical feasibility studies to financial analysis, risk assessment, procurement, and execution management. Participants will learn how to conduct techno-economic feasibility studies, assess project bankability, and evaluate regulatory, environmental, and social impacts that influence decision-making in the power sector. By combining engineering principles with financial and managerial insights, delegates will be equipped to transform feasibility outcomes into successful and sustainable project implementations that meet both operational and strategic goals.

WHO SHOULD ATTEND?

This course is designed for project managers, engineers, financial analysts, planners, regulators, policymakers, and consultants working in the power generation, transmission, and distribution sectors. It is equally valuable for professionals from energy ministries, utility companies, independent power producers (IPPs), and development finance institutions involved in the design, funding, and execution of power sector projects.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Conduct comprehensive technical, economic, and environmental feasibility studies for power projects.
- Develop financial models to assess project viability and investment potential.
- Identify and analyze risks across the power project lifecycle.
- Evaluate policy, regulatory, and market factors influencing project feasibility.
- Integrate sustainability and ESG principles into project planning and assessment.
- Apply cost-benefit and sensitivity analysis techniques to support investment decisions.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- The methodologies and tools used in technical and economic feasibility assessments.
- How to evaluate financial viability and structure bankable power projects.
- The importance of environmental, regulatory, and social compliance in feasibility studies.
- How to manage project execution using risk-based and performance-driven frameworks.
- The use of digital project management systems and AI-powered feasibility analytics.
- Techniques for managing multi-stakeholder dynamics during project planning and execution.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.
1. A GTC end-of-course certificate.
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded.