Advanced Energy Economics

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MasterPeak
TRAINING CENTER
MTC

Advanced Energy Economics

5 days training course

For detailed information on training course dates, please click the link:

Advanced Energy Economics.

Who Should Attend?

This training course is designed for professionals in the energy industry who seek to enhance their understanding of energy economics. It will be especially beneficial for:

- Financial professionals working within the energy sector
- Technical managers, including electrical power engineers, maintenance technicians, electrical supervisors, and engineering professionals, who need a deeper understanding of finance and economics
- Energy project managers
- Procurement and supply chain professionals
- Risk managers and related professionals

Course Overview

This advanced training course provides a comprehensive exploration of economic principles and financial modeling as they apply to the energy industry. Attendees will learn how to evaluate energy projects economically, understand the impact of energy price volatility, and make informed financial decisions within the context of uncertain economic conditions. By focusing on key economic parameters, cost estimation, and financial risk management, participants will gain the tools to evaluate energy projects' feasibility and sustainability effectively.

Objectives

Upon completing this course, participants will:

- Understand the broader economic environment and its impact on the energy industry
- Learn how to model energy revenue, cost, and risk
- Gain insight into key economic parameters like NPV, IRR, and Payback
- Be able to evaluate energy projects using various economic evaluation techniques
- Develop skills in financial analysis, cost management, and budget control for energy projects
- Learn about the management and mitigation of economic and financial risks in energy economics

Course Outline:

Day 1: The Economic Environment and the Energy Industry

- Understanding the economic environment and its impact on the energy industry
- Economic challenges faced by governments and the energy sector
- Economic evaluation of reserves and making decisions under uncertainty
- Techniques for economic decision-making: EMV (Expected Monetary Value) & decision trees
- The impact of economic variables such as interest rates, exchange rates, and energy prices

Day 2: Economic Modelling in the Energy Industry

- Revenue recognition and its role in energy economics
- The volatility of energy prices and its economic impact
- Cost estimation techniques in energy projects
- Joint venture agreements, production sharing agreements, working interest, royalties, and taxation considerations
- Forecasting cash flow and its implications for project planning

Day 3: Economic Evaluation of Energy Projects

- Evaluating accounting profit and return on equity (ROE)
- Conducting a cost-benefit analysis: Finance vs. economic value added
- Economic analysis techniques: NPV, NPVI, IRR, payback, adjusted NPV & adjusted payback
- Understanding the cost recovery method and government evaluation frameworks (Value for Money)

Day 4: Economic Finance and the Energy Industry

- Different types of finance in energy projects
- Calculating the cost of capital using WACC (Weighted Average Cost of Capital) and the Capital Asset Pricing Model (CAPM)
- Determining the economic hurdle rate and its role in project decision-making
- Managing energy projects economically through earned value analysis, budgetary control, and cost management

Day 5: Economic and Financial Risk Management in the Energy Industry

- Identifying and managing economic and financial risks in energy projects
- Developing and using risk models for economic forecasting
- Understanding financial derivatives: forwards, options, futures, and swaps
- Exploring international derivative markets and their role in energy risk management

DOCUMENTATION

The **MTC team** has meticulously prepared **high-quality training materials** for distribution to all delegates.

CERTIFICATES

An **accredited Certificate of Completion** will be awarded to participants who successfully attend and complete the program.

SCHEDULE

Course sessions are scheduled as follows:

- **Morning Session:** 09:00 AM – 1:00 PM
- **Afternoon Session:** 01:00 PM – 05:00 PM

REGISTRATION & PAYMENT

To register, please complete the **registration form** available on the course page and submit it with your **preferred payment method**. Alternatively, you can contact us via **email or WhatsApp** for assistance.

TRAVEL & TRANSPORT

We ensure a **seamless travel experience** by providing **airport-hotel-airport** transfers for all participants.