

PROJECT ECONOMICS FOR ENGINEERS

"Master the Financial and Economic Principles Essential for Successful Engineering Projects."

Schedule

Venue (InHouse)	Fees
At Your Organization Premises	Ask For The Quotation

► **Available delivery methods:** In-House Training

Introduction

This course equips engineers with the financial and economic tools necessary to evaluate, plan, and manage projects with an economic perspective. Participants will learn to apply economic principles, cost analysis, and financial decision-making techniques to ensure projects are viable, sustainable, and profitable.

Objectives

By the end of this course, participants will be able to:

- Understand key concepts of project economics and financial analysis
- Perform cost estimation, budgeting, and economic evaluation
- Apply techniques such as Net Present Value (NPV), Internal Rate of Return (IRR), and payback period
- Analyze project risks and economic feasibility
- Communicate economic findings effectively to stakeholders

Why Attend

- Bridge the gap between engineering and financial decision-making
- Enhance your ability to make economically sound project recommendations
- Improve project success rates through rigorous economic analysis
- Gain skills applicable to various industries and project types

Target Audience

- Engineers involved in project planning, execution, and management
- Project Managers and Coordinators
- Financial Analysts working with engineering projects
- Technical professionals seeking economic decision-making skills

Individual Benefits

- Develop competence in economic evaluation of projects
- Enhance budgeting and cost control abilities
- Improve communication with financial and management teams
- Increase career prospects with cross-disciplinary skills

Organizational Benefits

- Better project selection and resource allocation
- Reduced financial risks and improved profitability
- Enhanced integration between technical and financial teams
- Stronger overall project governance

Instructional Methodology

- Interactive lectures and case studies
- Hands-on exercises with financial calculations
- Group discussions and practical problem-solving
- Use of software tools for economic analysis

Course Outline

DETAILED 5-DAY COURSE OUTLINE (CUSTOMIZABLE)

Training Hours: 7:30 AM – 3:30 PM Daily Format: 3–4 Learning Modules | Coffee Breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Introduction to Project Economics

- Module 1 (07:30 – 09:30): Fundamentals of Project Economics and Financial Terminology
- Module 2 (09:45 – 11:15): Engineering Economics Principles
- Module 3 (11:30 – 01:00): Time Value of Money and Discounting
- Module 4 (02:00 – 03:30): Cash Flow Analysis and Financial Statements

Day 2: Cost Estimation and Budgeting

- Module 1 (07:30 – 09:30): Types of Costs and Cost Estimation Techniques
- Module 2 (09:45 – 11:15): Preparing Project Budgets
- Module 3 (11:30 – 01:00): Cost Control and Variance Analysis
- Module 4 (02:00 – 03:30): Case Study: Budget Development

Day 3: Economic Evaluation Methods

- Module 1 (07:30 – 09:30): Net Present Value (NPV) and Internal Rate of Return (IRR)
- Module 2 (09:45 – 11:15): Payback Period and Benefit-Cost Ratio
- Module 3 (11:30 – 01:00): Sensitivity and Risk Analysis in Economic Evaluation
- Module 4 (02:00 – 03:30): Practical Exercise: Economic Appraisal

Day 4: Project Risk and Decision Making

- Module 1 (07:30 – 09:30): Types of Risks in Projects
- Module 2 (09:45 – 11:15): Risk Assessment and Mitigation Strategies
- Module 3 (11:30 – 01:00): Decision-Making Tools and Techniques
- Module 4 (02:00 – 03:30): Group Exercise: Risk-Based Economic Decisions

Day 5: Communication and Reporting of Economic Analysis

- Module 1 (07:30 – 09:30): Reporting Financial Results to Stakeholders
- Module 2 (09:45 – 11:15): Economic Considerations in Project Management
- Module 3 (11:30 – 01:00): Review and Final Q&A
- Module 4 (02:00 – 03:30): Final Assessment and Certification

Certification

Upon successful completion, participants will receive a Certificate of Completion in Project Economics for Engineers, demonstrating their ability to integrate economic principles into engineering project management.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation's unique goals.

In-House / Customized Training

Interested in running this course for your team?

Please contact us:

TEL:

+601116373203

EMAIL:

info@mawaevents.net

© Material published by MAWA Events shown here is copyrighted. All rights reserved. Any unauthorized copying, distribution, use, dissemination, downloading, storing (in any medium), transmission, reproduction or reliance in whole or any part of this course outline is prohibited and will constitute an infringement of copyright.