



Engineering Management Excellence

18 - 22 Aug 2024
Cairo (Egypt)



Engineering Management Excellence

Ref.: 15483_309683 **Date:** 18 - 22 Aug 2024 **Location:** Cairo (Egypt) **Fees:** 3000 **Euro**

Introduction:

Engineering Management Excellence is a comprehensive course designed for professionals seeking to bridge the gap between technical expertise and effective management skills. In today's dynamic engineering landscape, success goes beyond technical know-how; it requires the ability to lead teams, manage projects, and align engineering efforts with organizational goals.

Targeted Groups:

- Engineers aspiring to transition into management roles
- Engineering Managers seeking to enhance their leadership skills
- Project Managers in technical fields
- Professionals involved in technology-driven projects
- Graduates with engineering backgrounds entering the managerial domain

Targeted Competencies:

- Leadership and Team Building
- Project Planning and Execution
- Strategic Decision-Making in Engineering
- Risk Management in Engineering Projects
- Effective Communication in Technical Environments
- Financial Acumen for Engineering Managers

Course Objectives:

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

- Lead engineering teams with confidence and efficiency
- Develop and execute effective project plans
- Make strategic decisions aligned with organizational objectives
- Mitigate risks associated with engineering projects
- Communicate technical information clearly to diverse stakeholders
- Understand and apply financial principles in engineering management

Course Outline:

Unit 1: Foundations of Engineering Management

- Introduction to Engineering Management
- Evolution of Engineering Roles
- Key Challenges in Modern Engineering Projects

Unit 2: Leadership and Team Building in Engineering

- Leadership Styles in Technical Environments
- Team Dynamics and Collaboration
- Motivating Technical Teams for Peak Performance

Unit 3: Project Planning and Execution

- Project Lifecycle and Methodologies
- Work Breakdown Structure WBS and Gantt Charts
- Resource Allocation and Optimization

Unit 4: Strategic Decision-Making in Engineering

- Strategic Alignment of Engineering Efforts
- Decision-Making Models for Engineers
- Case Studies in Engineering Strategy

Unit 5: Risk Management in Engineering Projects

- Identifying and Assessing Risks in Engineering
- Risk Mitigation Strategies
- Contingency Planning for Engineering Projects

Unit 6: Effective Communication in Technical Environments

- Technical Communication Strategies
- Stakeholder Engagement and Management
- Communicating Complex Ideas to Non-Technical Audiences

Unit 7: Financial Acumen for Engineering Managers

- Budgeting and Financial Planning
- Cost-Benefit Analysis for Engineering Projects
- Return on Investment ROI in Engineering Management



**Registration form on the :
Engineering Management Excellence**

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