MERCURY

Engineering Management Excellence Training Course

1 – 5 February 2027
Rome (Italy)



Dubai - UAE: +971 4 450 5697
Istanbul - Türkiye: +90 539 599 1206
Amman - Jordan: +962 79 712 3347

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Ref: 15483_1081315 **Date:** 1 – 5 February 2027 **Location:** Rome (Italy) **Fees:** 6200 Euro

Introduction:

This Engineering Management Excellence course is designed for professionals seeking to advance their careers by acquiring a master's in engineering management principles. This course provides a rich understanding of the essential aspects of engineering management, allowing participants to enhance their skills in leading projects and teams with a strong emphasis on systems engineering management, engineering management technology, and the benefits of engineering management.

Participants in this Engineering Management Excellence course explore the definition of engineering management and discuss its principles and concepts. They examine engineering management case studies to identify best practices and understand how to apply these strategies professionally. This detailed examination will enable them to define engineering management in their industry's context, recognizing its critical role in delivering successful engineering ventures.

Targeted Groups:

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

Targeted Competencies:

Participants competencies in this Engineering Management Excellence training will:

- 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 Engineering Management Excellence course, participants will be able to:

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- 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.

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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.