

Course No. 1125

# Engineering Management Essentials Training Course

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**ENGINEERING MANAGEMENT**  
**INDUSTRIAL ENGINEERING, MAINTENANCE & OPERATIONS**

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DURATION

**5 Days**

DELIVERY

**Classroom**

LOCATION

**Riyadh, Kingdom of Saudi Arabia**

DATES

**21 – 25 Sept 2026**



## Scheduled Event Details

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|---------------|---------------------------------|
| CITY          | Riyadh, Kingdom of Saudi Arabia |
| DATE          | 21 – 25 Sept 2026               |
| DELIVERY TYPE | Classroom                       |
| COURSE FEE    | €4,800                          |

## Course Overview

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Engineering Management Essentials Training Course is a comprehensive professional development program designed to equip engineering leaders, technical managers, and aspiring supervisors with the knowledge and practical skills required to manage engineering teams, projects, resources, and organizational performance effectively. As engineering environments become increasingly complex, organizations require professionals who can combine strong technical expertise with strategic leadership, operational excellence, financial awareness, and sound decision-making. This course bridges the gap between engineering practice and management responsibilities, enabling participants to lead engineering functions with confidence and measurable impact.

Modern engineering organizations operate in highly competitive, technology-driven environments where efficiency, innovation, risk management, sustainability, and cross-functional collaboration are essential for success. Engineering managers are expected not only to oversee technical activities but also to align engineering initiatives with corporate objectives, optimize operational performance, manage budgets, improve quality, and lead multidisciplinary teams through continuous improvement and organizational change. This Engineering Management Essentials Training Course provides participants with practical frameworks, proven management methodologies, and industry best practices that support high-performing engineering operations.

Throughout the program, participants will explore the essential principles of engineering management, including strategic planning, project leadership, engineering economics, resource optimization, performance measurement, quality management, communication, risk assessment, and stakeholder engagement. The course emphasizes practical application through real-world engineering scenarios, collaborative discussions, and implementation-focused exercises that strengthen leadership capabilities while enhancing organizational effectiveness.

Designed for professionals working across government entities, ministries, public sector

organizations, oil and gas companies, utilities, infrastructure organizations, manufacturing industries, engineering consulting firms, construction companies, and large corporations, this course supports the development of competent engineering leaders capable of driving operational excellence, innovation, and sustainable organizational growth. By integrating management principles with engineering expertise, participants will be better prepared to deliver successful engineering outcomes while supporting strategic business objectives.

## Objectives

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- Analyze the fundamental principles of engineering management and apply them to improve organizational performance throughout the duration of the course.
- Develop practical leadership strategies for managing engineering teams, projects, and technical resources effectively.
- Evaluate engineering decision-making processes using financial, operational, technical, and risk-based considerations.
- Apply project planning, scheduling, monitoring, and performance management techniques to engineering initiatives.
- Design effective resource allocation and workload management approaches that enhance engineering productivity.
- Improve communication, collaboration, and stakeholder engagement across multidisciplinary engineering environments.
- Strengthen engineering quality management practices to support operational excellence and continuous improvement.
- Implement engineering risk management techniques that identify, assess, and mitigate project and operational risks.
- Assess engineering performance using key performance indicators, operational metrics, and management reporting tools.
- Align engineering activities with organizational strategy, governance requirements, and long-term business objectives.

## Who Should Attend

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This Engineering Management Essentials Training Course is designed for engineering managers, engineering supervisors, technical leaders, project engineers, maintenance managers, operations managers, plant managers, production managers, engineering coordinators, engineering consultants, and professionals transitioning from technical roles into leadership and management positions. It is particularly valuable for individuals responsible for leading engineering teams, managing engineering projects, improving operational performance, or supporting organizational transformation initiatives.

The course is also suitable for executives, department heads, engineering directors, engineering planners, asset managers, quality managers, reliability engineers, process improvement specialists, project management professionals, and technical decision makers seeking to strengthen their management capabilities while maintaining engineering excellence. Participants from mechanical, electrical, civil, industrial, chemical, petroleum, process, manufacturing, infrastructure, energy, utilities, transportation, and construction sectors will benefit from the practical management frameworks presented throughout the program.

Organizations including government agencies, ministries, public sector organizations, engineering authorities, oil and gas companies, manufacturing facilities, engineering service providers, utility companies, infrastructure developers, engineering consultants, and multinational corporations will find this course valuable for developing future engineering leaders who can balance technical expertise with effective leadership, strategic planning, financial accountability, and operational excellence.

## Learning Outcomes

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- By the end of this Engineering Management Essentials Training Course, participants will be able to:
- Apply core engineering management principles to improve engineering operations and organizational performance.
- Lead engineering teams with greater confidence using effective leadership, motivation, and communication techniques.
- Develop engineering plans that align technical activities with strategic organizational objectives.
- Manage engineering resources, budgets, and workloads to maximize efficiency and productivity.

- Evaluate engineering risks and implement appropriate mitigation strategies throughout project lifecycles.
- Monitor engineering performance using meaningful performance indicators and management reporting systems.
- Improve engineering quality through structured quality management and continuous improvement methodologies.
- Make informed engineering decisions by balancing technical, operational, financial, and business considerations.
- Strengthen collaboration between engineering departments and organizational stakeholders.
- Develop practical action plans that support sustainable engineering leadership and continuous organizational improvement.

## Course Outline

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### DAY 01

## Foundations of Engineering Management

- The evolving role of engineering managers in modern organizations
- Core principles of engineering management and leadership
- Organizational structures and engineering governance
- Strategic planning and alignment of engineering functions with business objectives

### PRACTICAL APPLICATION

Assessing engineering management challenges within participants' organizations

### DAY 02

## Engineering Leadership and Team Performance

- Leadership styles for engineering environments
- Managing multidisciplinary engineering teams
- Effective communication, collaboration, and stakeholder management
- Performance management, coaching, and talent development

## DAY 02 — CONTINUED

**PRACTICAL APPLICATION**

Leadership case studies and team performance improvement workshop

**DAY 03****Engineering Project Management and Operational Excellence**

- Engineering project planning, scheduling, and execution
- Resource allocation, workload balancing, and capacity planning
- Engineering quality management and continuous improvement methodologies
- Risk management and engineering decision-making frameworks

**PRACTICAL APPLICATION**

Developing an engineering project execution and risk management plan

**DAY 04****Financial, Operational, and Strategic Engineering Management**

- Engineering economics and financial decision-making
- Budget planning, cost control, and resource optimization
- Performance measurement using engineering KPIs and operational dashboards
- Innovation management, digital transformation, and sustainable engineering practices

**PRACTICAL APPLICATION**

Engineering performance evaluation and strategic improvement exercise

**DAY 05****Implementing Engineering Management Excellence**

- Change management within engineering organizations
- Governance, compliance, and engineering ethics
- Building high-performance engineering cultures

## DAY 05 — CONTINUED

- Developing long-term engineering improvement strategies

**FINAL WORKSHOP**

Preparing an Engineering Management Excellence Action Plan for organizational implementation

## Register or Request More Information

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Course page: <https://quest-training.com/courses/engineering-management-essentials-training-course>

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