

Course No. 1132

Engineering Quality Management Training Course

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

DURATION

5 Days

LOCATION

Istanbul, Türkiye

DELIVERY

Classroom

DATES

12 – 16 Oct 2026



Scheduled Event Details

CITY	Istanbul, Türkiye
DATE	12 – 16 Oct 2026
DELIVERY TYPE	Classroom
COURSE FEE	€5,300

Course Overview

The Engineering Quality Management Training Course is a comprehensive professional development program designed to equip engineers, quality professionals, project managers, technical leaders, and decision makers with the knowledge, methodologies, and practical skills required to establish, implement, monitor, and continuously improve quality management systems across engineering projects and operational environments. As organizations strive to achieve operational excellence, regulatory compliance, and customer satisfaction, engineering quality management has become a strategic function that directly influences project success, organizational performance, and long-term business sustainability.

Engineering projects demand consistent quality throughout every phase of the project lifecycle, from design and procurement to construction, commissioning, operation, and maintenance. Effective quality management minimizes defects, reduces rework, improves operational efficiency, controls project costs, enhances safety, and ensures compliance with engineering standards, technical specifications, and organizational requirements. This course provides participants with internationally recognized quality management principles that support reliable project delivery and continuous performance improvement.

Throughout the program, participants will explore the key elements of Engineering Quality Management, including quality planning, quality assurance (QA), quality control (QC), process management, quality audits, nonconformance management, corrective and preventive actions (CAPA), root cause analysis, performance measurement, continuous improvement, and quality leadership. The course emphasizes practical application through engineering case studies, quality improvement exercises, and real-world implementation strategies that enable participants to strengthen quality performance within their organizations.

The Engineering Quality Management Training Course also examines how quality management

integrates with engineering governance, project management, risk management, asset management, operational excellence, health and safety, environmental management, and organizational strategy. By completing this course, participants will be prepared to develop effective quality systems, improve engineering processes, strengthen organizational compliance, enhance customer confidence, and support sustainable business growth across government entities, ministries, public sector organizations, financial institutions, oil and gas companies, energy providers, manufacturing industries, infrastructure projects, and multinational corporations.

Objectives

- Analyze engineering quality management principles and their impact on organizational and project performance.
- Develop comprehensive engineering quality plans aligned with project objectives and organizational requirements.
- Evaluate quality management systems using internationally recognized engineering standards and best practices.
- Apply quality assurance and quality control methodologies throughout engineering project lifecycles.
- Design effective quality monitoring processes that improve operational efficiency and product reliability.
- Improve engineering processes through continuous quality improvement methodologies.
- Strengthen organizational compliance with engineering specifications, quality standards, and regulatory requirements.
- Implement quality audits, inspections, and performance evaluation techniques.
- Assess quality risks and develop corrective and preventive action plans to minimize nonconformities.
- Align engineering quality management practices with governance, operational excellence, sustainability, and strategic business objectives.

Who Should Attend

This course is designed for quality managers, engineering managers, project managers, quality engineers, quality assurance professionals, quality control inspectors, reliability engineers, design engineers, construction engineers, maintenance engineers, operations engineers, production engineers, planning engineers, commissioning engineers, asset management professionals,

technical specialists, and engineering consultants responsible for maintaining and improving quality performance across engineering projects and operational environments.

The program is also valuable for senior engineers, department managers, plant managers, operations managers, maintenance managers, HSE professionals, compliance specialists, internal auditors, continuous improvement teams, project sponsors, executive managers, and decision makers responsible for quality governance, engineering performance, organizational excellence, and regulatory compliance.

Professionals working within government entities, ministries, public sector organizations, financial institutions managing engineering infrastructure, oil and gas companies, energy providers, manufacturing industries, construction organizations, transportation authorities, mining companies, utility providers, infrastructure developers, and multinational engineering organizations will benefit significantly from the practical quality management methodologies and internationally recognized best practices covered throughout the course.

Learning Outcomes

- By the end of this course, participants will be able to:
- Explain the principles and strategic importance of Engineering Quality Management.
- Develop and implement quality management plans for engineering projects and operations.
- Apply quality assurance and quality control techniques to improve engineering performance.
- Conduct quality inspections, audits, and compliance assessments using structured methodologies.
- Identify quality risks, nonconformities, and process deficiencies through systematic analysis.
- Perform root cause analysis and implement corrective and preventive actions (CAPA).
- Monitor engineering quality performance using key performance indicators (KPIs) and quality metrics.
- Integrate quality management with project management, risk management, asset management, and operational excellence initiatives.
- Prepare professional quality reports and communicate quality performance effectively to stakeholders and senior management.
- Promote a culture of continuous improvement, engineering excellence, and organizational quality throughout engineering operations.

Course Outline

DAY 01

Foundations of Engineering Quality Management

- Principles and objectives of Engineering Quality Management
- Quality management systems and international best practices
- Engineering standards, specifications, and regulatory requirements
- Roles and responsibilities in engineering quality management

PRACTICAL

Practical workshop on evaluating engineering quality systems and identifying improvement opportunities

DAY 02

Quality Planning and Quality Assurance

- Developing engineering quality plans
- Quality assurance methodologies throughout the project lifecycle
- Process standardization and documentation management
- Supplier quality management and procurement quality considerations

PRACTICAL EXERCISE

Practical exercise on preparing a comprehensive engineering quality plan

DAY 03

Quality Control and Performance Measurement

- Quality control tools and inspection techniques
- Engineering testing, verification, and validation processes
- Nonconformance management and corrective action processes
- Quality performance indicators and reporting systems

DAY 03 — CONTINUED

PRACTICAL APPLICATION

Practical application involving engineering quality inspections and performance analysis

DAY 04**Auditing, Risk Management, and Continuous Improvement**

- Internal quality auditing principles and audit planning
- Root Cause Analysis (RCA) and Corrective and Preventive Actions (CAPA)
- Integrating quality management with engineering risk management
- Continuous improvement methodologies and operational excellence

PRACTICAL

Practical workshop on conducting engineering quality audits and improvement planning

DAY 05**Strategic Engineering Quality Leadership**

- Leadership responsibilities in quality management
- Engineering governance and quality culture development
- Measuring organizational quality maturity and performance
- Strategic quality improvement initiatives for engineering organizations

FINAL WORKSHOP

Final workshop involving the development of a comprehensive Engineering Quality Management implementation plan integrating quality planning, quality assurance, quality control, auditing, performance measurement, continuous improvement, governance, and organizational excellence to achieve sustainable engineering performance and project success.



Register or Request More Information

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

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