

Course No. 1601

Advanced Quality Management Training Course

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

DURATION

5 Days

DELIVERY

Classroom



Course Overview

Modern Quality Management requires organizations to move beyond simply detecting and correcting errors toward building integrated systems that prevent failures, continuously improve processes, support management decisions, and directly contribute to strategic objectives and organizational performance.

Advanced Quality Management focuses on achieving higher levels of efficiency, reliability, and consistency through quality data analysis, risk management, root cause analysis, process improvement, cost of quality management, supplier quality management, and continuous improvement methodologies.

This course provides a practical and advanced approach that integrates strategic quality planning, process improvement, performance analysis, quality risk management, nonconformity management, root cause analysis, supplier quality improvement, and the development of a strong culture of quality excellence.

Participants will develop the ability to strengthen the maturity and effectiveness of quality systems, transform quality data into actionable decisions, reduce waste, rework, and cost of poor quality, improve operational efficiency, and contribute to sustainable organizational performance.

Objectives

- By the end of this course, participants will be able to:
- Develop an advanced Quality Management approach aligned with strategic objectives.
- Assess Quality Management System maturity and identify performance gaps.
- Apply advanced methods for process improvement and operational efficiency.
- Analyze quality data to support effective decision-making.
- Apply advanced root cause analysis techniques.
- Develop effective quality risk management strategies.
- Reduce nonconformities, rework, waste, and cost of poor quality.
- Develop advanced performance indicators to measure quality effectiveness.
- Improve supplier quality and supply chain performance.

- Apply continuous improvement and Operational Excellence methodologies.
- Strengthen the ability to predict and prevent quality problems.
- Measure Cost of Quality and link it to financial and operational performance.
- Lead cross-functional quality improvement initiatives.
- Build a culture focused on quality, excellence, and continuous improvement.

Who Should Attend

This course is designed for Quality Managers, Quality Assurance and Quality Control Managers, Quality Engineers, Operations Managers, Continuous Improvement Professionals, Organizational Excellence Managers, Quality Auditors, and Quality Consultants.

It is also suitable for managers, supervisors, engineers, and specialists responsible for process development, performance analysis, risk management, quality improvement, supplier management, and operational cost reduction.

The course is particularly valuable for experienced professionals seeking to move beyond traditional quality practices toward a strategic, data-driven, preventive, and continuously improving approach to Quality Management.

Learning Outcomes

- Upon successful completion of this course, participants will be able to:
- Assess Quality Management System maturity and identify performance gaps.
- Align quality objectives with organizational strategy.
- Analyze processes and identify sources of waste and inefficiency.
- Use quality data to identify performance trends and recurring problems.
- Apply advanced root cause analysis tools.
- Identify, assess, and manage quality risks.
- Develop performance indicators that reflect process quality and organizational results.
- Apply continuous improvement and Operational Excellence methodologies.
- Reduce nonconformities, rework, waste, and quality-related losses.

- Measure and analyze Cost of Quality.
- Improve supplier performance and incoming quality.
- Develop preventive approaches to minimize quality failures.
- Lead cross-functional quality improvement initiatives.
- Measure and sustain the impact of improvement initiatives.
- Develop an advanced roadmap for quality and organizational performance improvement.
- Targeted Competencies
- Advanced Quality Management.
- Strategic Quality Planning.
- Process Improvement.
- Operational Excellence.
- Quality Data Analysis.
- Quality Risk Management.
- Root Cause Analysis.
- Nonconformity Management.
- Cost of Quality.
- Quality Performance Indicators.
- Continuous Improvement.
- Supplier Quality Management.
- Quality Failure Prevention.
- Quality Improvement Project Management.
- Quality and Excellence Culture.

Course Outline

DAY 01

Strategic Leadership and Advanced Quality Management

- Evolution of Quality Management from inspection to prevention and organizational excellence.
- The role of quality in achieving strategic and organizational performance.
- Principles and components of Advanced Quality Management.
- Assessing Quality Management System maturity.

DAY 01 — CONTINUED

- Identifying quality and performance gaps.
- Aligning quality objectives with strategic objectives.
- Quality governance and roles and responsibilities.
- Building an organizational culture that supports quality.
- Leadership's role in achieving sustainable quality and excellence.
- Prioritizing quality improvement initiatives.

PRACTICAL APPLICATION

Assessing quality maturity and establishing improvement priorities.

DAY 02

Process Improvement and Quality Performance Analysis

- Process analysis and identification of waste.
- Identifying bottlenecks, duplication, and inefficiencies.
- Improving process and workflow flow.
- Applying continuous improvement methodologies.
- Analyzing variation in process performance.
- Quality performance measurement and analysis.
- Developing Quality Key Performance Indicators.
- Identifying trends and patterns in quality data.
- Using data to support improvement decisions.
- Linking quality indicators with operational and financial performance.

PRACTICAL APPLICATION

Analyzing a process and identifying opportunities for efficiency and quality improvement.

DAY 03

Quality Risk Management and Root Cause Analysis

- Proactive Quality Risk Management.
- Identifying quality risks and potential failure points.
- Assessing quality risk likelihood and impact.
- Identifying failure causes and sources of nonconformity.
- Advanced root cause analysis techniques.
- Distinguishing root causes from symptoms.
- Developing corrective and improvement actions.
- Preventing recurrence of nonconformities.
- Predicting and preventing quality problems before they occur.
- Verifying the effectiveness of corrective actions.

PRACTICAL APPLICATION

Analyzing a quality problem, identifying its root cause, and developing an effective response plan.

DAY 04

Cost of Quality, Supplier Quality and Operational Excellence

- Understanding Cost of Quality and its impact on financial performance.
- Prevention, appraisal, and failure costs.
- Identifying rework, waste, and nonconformity costs.
- Using Cost of Quality to support management decisions.
- Supplier Quality Management.
- Supplier evaluation and qualification based on quality criteria.
- Monitoring the quality of supplied materials and services.
- Managing quality risks across the supply chain.
- Developing supplier quality improvement plans.
- Integrating Quality Management with Operational Excellence.

DAY 04 — CONTINUED

PRACTICAL APPLICATION

Analyzing Cost of Quality and evaluating the performance of a strategic supplier.

DAY 05

Continuous Improvement, Innovation and Sustainable Quality Excellence

- Building an integrated continuous improvement system.
- Identifying and prioritizing quality improvement initiatives.
- Managing quality improvement projects and initiatives.
- Measuring the impact of improvement initiatives.
- Innovation in processes and Quality Management practices.
- Using data and technology to improve quality performance.
- Building a prevention-focused quality culture.
- Managing organizational change related to quality initiatives.
- Benchmarking and applying leading quality practices.
- Sustaining improvement results and maintaining performance gains.
- Developing an integrated framework for Quality Excellence.

PRACTICAL APPLICATION

Developing a 90-day advanced improvement plan to strengthen quality and organizational performance.

Register or Request More Information

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

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