



Consulting and Training | Reach New Heights

Course Name

Quality Control and Assurance in Engineering

Sector Name

Quality Management & Operational Excellence

Document Type

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Quality Control and Assurance in Engineering

Course Introduction

This comprehensive **5-day** course focuses on quality control and assurance principles and practices in engineering. It covers fundamental quality concepts, statistical process control, quality management systems and standards, advanced quality tools, and strategies for fostering a quality-focused culture. Participants will gain practical skills in implementing and managing quality processes in engineering environments.

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Quality Control and Assurance in Engineering

Target Audience

- ✓ Quality & Process Engineers – Ensuring product and process quality.
- ✓ Manufacturing & Operations Managers – Maintaining production standards.
- ✓ R&D and Design Engineers – Integrating quality into product development.
- ✓ Supply Chain & Procurement Professionals – Managing supplier quality.
- ✓ Compliance & Regulatory Officers – Ensuring adherence to standards.

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Quality Control and Assurance in Engineering

Learning Objectives

- ✓ Understand the importance of quality in engineering and key quality management concepts
- ✓ Master Statistical Process Control (SPC) techniques and their application
- ✓ Gain knowledge of quality management systems and standards (e.g., ISO 9001)
- ✓ Apply advanced quality tools like Failure Mode and Effects Analysis (FMEA) and Design of Experiments (DOE)
- ✓ Implement Six Sigma methodologies for quality improvement
- ✓ Develop strategies for creating and maintaining a quality-focused organizational culture
- ✓ Create a comprehensive quality improvement plan for engineering operations

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Quality Control and Assurance in Engineering

Course Outline

✓ 01 DAY ONE

Fundamentals of Quality Control and Assurance Objectives:

- ✓ Understand the importance of quality in engineering
- ✓ Learn key quality management concepts and principles
- ✓ Differentiate between quality control and quality assurance

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Course Outline

✓ 02 DAY TWO

Statistical Process Control (SPC) Objectives:

- ✓ Understand the principles of SPC
- ✓ Learn to create and interpret control charts
- ✓ Apply SPC tools in real-world scenarios

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Course Outline

✓ **03 DAY THREE**

Quality Management Systems and Standards Objectives:

- ✓ Understand ISO 9001 requirements
- ✓ Learn about other relevant quality standards (e.g., AS9100, IATF 16949)
- ✓ Develop skills for implementing and auditing quality management systems

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Course Outline

✓ **04 DAY FOUR**

Advanced Quality Tools and Techniques Objectives:

- ✓ Master Failure Mode and Effects Analysis (FMEA)
- ✓ Apply Design of Experiments (DOE) in quality improvement
- ✓ Understand and implement Six Sigma methodologies

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Course Outline

✓ 05 DAY FIVE

Continuous Improvement and Quality Culture Objectives:

- ✓ Develop strategies for fostering a quality-focused culture
- ✓ Implement continuous improvement initiatives
- ✓ Create a quality improvement plan for your organization

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
March 15, 2027	March 19, 2027	5 days	4250.00 \$	UAE , Dubai
June 8, 2026	June 12, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
Oct. 5, 2026	Oct. 9, 2026	5 days	5950.00 \$	Switzerland , Zurich
Nov. 8, 2026	Nov. 12, 2026	5 days	4250.00 \$	KSA , Riyadh

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