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Course Name

ASQ Introduction to Quality Engineering

Sector Name

Quality Management & Operational Excellence

Document Type

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ASQ Introduction to Quality Engineering

Course Introduction

Quality engineering ensures that goods and services are designed, developed, and produced to meet or exceed consumer expectations and requirements. It involves analyzing product design and development while ensuring compliance with specifications during manufacturing.

In this course, participants will explore key Quality Engineering concepts and tools, including quality systems, auditing, product and process control, quality methods, applied statistics, Statistical Process Control (SPC), and Design of Experiments (DOE).

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Target Audience

- ✓ Engineers, quality control personnel, inspectors, testing personnel, or those interested in the quality
- ✓ Engineering profession.

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Learning Objectives

- ✓ Define basic quality management principles.
- ✓ Discuss the relationship of the quality engineer to the quality system.
- ✓ Analyze the relationship of statistics to a process.
- ✓ Use process capability and statistical process control to monitor a process.
- ✓ Generate acceptance sampling plans and identify and use technical quality tools.
- ✓ Incorporate quality technology in design, customer-supplier relationships, and Reliability.
- ✓ Availability, and Maintainability (RAM), materials control, measurement, auditing, and quality.
- ✓ Costs and document control within a quality system.
- ✓ Apply problem-solving tools and basic statistical concepts, process control, and process.
- ✓ Capability plans, acceptance sampling, and attribute controls.

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Course Outline

✓ DAY 1

Overview of Management and Leadership Principles

- ✓ Quality Philosophies and Foundations
- ✓ The Quality Management System (QMS)
- ✓ Strategic Planning

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Course Outline

✓ DAY 2

Deployment Techniques

- ✓ Quality Information System (QIS)
- ✓ Facilitation Principles and Techniques
- ✓ Customer Relations
- ✓ Supplier Management

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Course Outline

✓ DAY 3

The Quality System

- ✓ Elements of the Quality System
- ✓ Documentation of the Quality System
- ✓ Quality Standards and Other Guidelines
- ✓ Quality Audits
- ✓ Cost of Quality (COQ)
- ✓ Quality Training

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Course Outline

✓ DAY 4

Product and Process Design

- ✓ Classification of Quality Characteristics
- ✓ Design Inputs and Review
- ✓ Reliability and Maintainability

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Course Outline

✓ DAY 5

Product and Process Control

- ✓ Tools
- ✓ Material Control
- ✓ Acceptance Sampling
- ✓ Measurement System Analysis (MSA) and Metrology

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 19, 2027	April 23, 2027	5 days	4250.00 \$	UAE , Abu Dhabi
Aug. 30, 2027	Sept. 3, 2027	5 days	4950.00 \$	England , London
Jan. 3, 2027	Jan. 7, 2027	5 days	4250.00 \$	KSA , Riyadh
March 15, 2027	March 19, 2027	5 days	4250.00 \$	UAE , Dubai

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