BOOST
THE LEADING TRAINING PROVIDER

Quality Management & Operational Excellence

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)

Target Audience

Engineers, quality control personnel, inspectors, testing personnel, or those interested in the quality

engineering profession.

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, Reliability,
- Availability, and Maintainability (RAM), materials control, measurement, auditing, 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.

Course Outline

- **Content**

Overview of Management and Leadership Principles

Quality Philosophies and Foundations

The Quality Management System (QMS)

Strategic Planning

Deployment Techniques

Quality Information System (QIS)

Facilitation Principles and Techniques

Customer Relations

Supplier Management

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

Product and Process Design

Classification of Quality Characteristics

Design Inputs and Review

Reliability and Maintainability

Product and Process Control

Tools

Material Control

Acceptance Sampling

Measurement System Analysis (MSA) and Metrology

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 7, 2025	April 11, 2025	5 days	4250.00 $	UAE - Abu Dhabi
Aug. 18, 2025	Aug. 22, 2025	5 days	4950.00 $	England - London
Dec. 28, 2025	Jan. 1, 2026	5 days	4250.00 $	KSA - Riyadh