

ASQ Introduction to Quality Engineering Course

Venue Information

Venue: London UK

Place:

Start Date: 2026-09-15

End Date: 2026-09-19

Course Details

Net Fee: £4750.00

Duration: 1 Week

Category ID: QAPC

Course Code: QAPC-12

Syllabus

Course Syllabus

Introduction

Who should attend:

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

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.

plans, acceptance sampling, and attribute controls.

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

Continuous Improvement

- Quality Control Tools
- Quality Management and Planning Tools
- Continuous Improvement Techniques
- Corrective Action
- Preventive Action

- Graphical Methods for Depicting Relationships
 - Graphical Methods for Depicting Distributions
 - Continuous Distributions
 - Discrete Distributions
- Statistical Decision-Making
 - Point Estimates and Confidence Intervals
 - Hypothesis Testing and Paired-Comparison Tests
- Relationships between Variables
 - Linear Regression and Simple Linear Correlation
- Statistical Process Control (SPC)
 - Objectives and Benefits
 - Common and Special Causes
 - Selection of Variable and Rational Subgrouping
 - Control Charts
- Process and Performance Capability
 - Process Capability Studies and Indices
- Design and Analysis of Experiments
 - Terminology and ANOVA
 - Planning and Organizing Experiments