



Consulting and Training | Reach New Heights

**Course Name**

# Preparation of Certified Quality Engineer (CQE)

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**Sector Name**

Quality Management & Operational Excellence

**Document Type**

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## Preparation of Certified Quality Engineer (CQE)

### Course Introduction

Becoming a CQE brings numerous advantages not only to your personal career but also to your organization. This makes your organization better at identifying process issues that waste time and money, use the time and money saved to further develop the capabilities of your organization, and use these improved organizational capabilities to drive the bottom line (earnings). Organizations will also be able to invest these cost and time savings to provide improved products and services.

This training Program is designed to provide participants with the necessary knowledge and concepts in order for them to achieve a recognized mastery in the quality discipline. This Training program will allow participants to have the knowledge and skills required to improve the processes that drive customer satisfaction, which will improve the business performance of your organization.

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## Preparation of Certified Quality Engineer (CQE)

### Target Audience

#### The Certified Quality Engineer (CQE) Preparation course targets:

- ✓ Quality & Manufacturing Engineers – Ensuring product and process quality.
- ✓ Process Improvement Specialists – Applying Six Sigma, Lean, and quality methods.
- ✓ Regulatory & Compliance Officers – Meeting industry standards.
- ✓ Aspiring CQEs & Students – Preparing for CQE certification.

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## Preparation of Certified Quality Engineer (CQE)

### Learning Objectives

- ✓ Understand the principles of product and service quality evaluation and control.
- ✓ Understand The Quality Management System (QMS).
- ✓ Understand the ASQ Code of Ethics for Professional Conduct.
- ✓ Discover the Barriers to Quality Improvement.
- ✓ Develop and operate quality control systems, applications, and analysis of testing and inspection procedures.
- ✓ Understand product quality, design, and control processes.
- ✓ Use metrology and statistical methods to diagnose and correct improper quality control practices, an understanding of human factors and motivation.
- ✓ Familiarize oneself with quality cost concepts and techniques.
- ✓ Develop and administer management information systems and audit quality systems for deficiency identification and correction.

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## Preparation of Certified Quality Engineer (CQE)

### Course Outline

#### ✓ 01 DAY ONE

##### **Introduction to Quality Management:**

- ✓ Quality Philosophies and Foundations.
- ✓ The Quality Management System (QMS).
- ✓ ASQ Code of Ethics for Professional Conduct.
- ✓ Facilitation Principles and Techniques.
- ✓ Barriers to Quality Improvement.

##### **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.

## Preparation of Certified Quality Engineer (CQE)

### Course Outline

#### ✓ 02 DAY TWO

##### **Product and Process Design**

- ✓ Classification of Quality Characteristics.
- ✓ Design Inputs and Review.
- ✓ Technical Drawings and Specifications.
- ✓ Design Verification.
- ✓ Reliability and Maintainability.
- ✓ Reliability and maintainability indices.
- ✓ Bathtub curve.

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### Course Outline

#### ✓ 03 DAY THREE

##### **Product and Process Control:**

- ✓ Product & Process Control Tools.
- ✓ Material Control.
- ✓ Acceptance Sampling.
- ✓ Measurement & Testing.
- ✓ Metrology.
- ✓ Measurement System Analysis.
- ✓ Reliability/safety/hazard assessment tools.
- ✓ Quality Risk Management Tools.

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## Preparation of Certified Quality Engineer (CQE)

### Course Outline

#### ✓ 04 DAY FOUR

##### **Project Management:**

- ✓ Tools.
- ✓ Material Control.
- ✓ C. Acceptance Sampling.
- ✓ E. Metrology.
- ✓ F. Measurement System Analysis (MSA).

##### **Quantitative Methods and Tools**

- ✓ Collecting and Summarizing Data.
- ✓ Quantitative Concepts.
- ✓ Probability Distributions.
- ✓ Statistical Decision-making.
- ✓ Relationships Between Variables.
- ✓ Statistical Process Control (SPC).
- ✓ Process and Performance Capability.
- ✓ Design and Analysis of Experiments.

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## Preparation of Certified Quality Engineer (CQE)

### Course Outline

#### ✓ 05 DAY FIVE

##### **Continuous Improvement:**

- ✓ Measuring Quality.
- ✓ Quality Control Tools.
- ✓ Continuous Improvement Techniques.
- ✓ Corrective Action.
- ✓ Preventive Action.
- ✓ Workshop.

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## Preparation of Certified Quality Engineer (CQE)

### Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 23, 2027	May 27, 2027	5 days	4250.00 \$	Bahrain , Manama
Nov. 23, 2026	Nov. 27, 2026	5 days	5950.00 \$	USA , Texas
Aug. 24, 2026	Aug. 28, 2026	5 days	4250.00 \$	UAE , Dubai
April 4, 2027	April 8, 2027	5 days	4250.00 \$	KSA , Riyadh

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