CQE CERTIFIED QUALITY ENGINEER

Management and Leadership

A. Quality Philosophies and Foundations
B. B. The Quality Management System (QMS)
C. ASQ Code of Ethics for Professional Conduct
D. Leadership Principles and Techniques
E. Facilitation Principles and Techniques
F. Communication Skill
G. Customer Relations
H. Supplier Management
I. Barriers to Quality Improvement

The Quality System

A. Elements of the Quality System
B. Documentation of the Quality System
C. Quality Standards and Other Guidelines
D. Quality Audits
E. Cost of Quality (COQ)
F. Quality Training

Product, Process, and Service Design

A. Classification of Quality Characteristics
B. Design Inputs and Review
C. Technical Drawings and Specifications
D. Verification and Validation
E. Reliability and Maintainability

Product and Process Control

A. Methods
B. Material Control
C. Acceptance Sampling
D. Measurement and Test
E. Metrology
F. Measurement System Analysis (MSA)
G. Process and Performance Capability
H. Design and Analysis of Experiments

Continuous Improvement

A. Quality Control Tools
B. Quality Management and Planning Tools
C. Continuous Improvement Methodologies
D. Lean tools
E. Corrective Action
F. Preventive Action

Quantitative Methods and Tools

A. Collecting and Summarizing Data
B. Quantitative Concepts
C. Probability Distributions
D. Statistical Decision-Making
E. Relationships Between Variables
F. Statistical Process Control (SPC)
G. Process and Performance Capability
H. Design and Analysis of Experiments

Risk Management

A. Risk Oversight
B. Risk Assessment
C. Risk Control