

CERTIFIED QUALITY ENGINEER EXAMINATION PREPARATION

The following has been excerpted from the ASQ.org website:

The Certified Quality Engineer is a professional who understands the principles of product and service quality evaluation and control. This body of knowledge and applied technologies include, but are not limited to, development and operation of quality control systems, application and analysis of testing and inspection procedures, the ability to use metrology and statistical methods to diagnose and correct improper quality control practices, an understanding of human factors and motivation, facility with quality cost concepts and techniques, and the knowledge and ability to develop and administer management information systems and to audit quality systems for deficiency identification and correction.

The course is primarily designed to prepare students to take the ASQ Certified Quality Engineer (CQE) examination.

Each certification candidate is required to pass a written examination that consists of multiple-choice questions that measure comprehension of the Body of Knowledge. The Quality Engineer examination is a one-part, 160-question, five-hour exam. It is offered in English.

Minimum Expectations of a Quality Engineer

- Will have a fundamental understanding of quality philosophies, principles, systems, methods, tools, standards, organizational and team dynamics, customer expectations and satisfaction, supplier relations and performance, leadership, training, interpersonal relationships, improvement systems and professional ethics.
- Will have a fundamental understanding of a quality system and its development, documentation and implementation to domestic and international standards or requirements.
- Will have a basic understanding of the audit process including types of audits, planning, preparation, execution, reporting results and follow-up.
- Will be able to develop and implement quality programs, including tracking, analyzing, reporting and problem solving.
- Will be able to plan, control and assure product and process quality in accordance with quality principles, which include planning processes, material control, acceptance sampling and measurement systems.
- Will have basic knowledge of reliability, maintainability, and risk management, including key terms and definitions, modeling, systems design, assessment tools and reporting.
- Will have a thorough understanding of problem-solving and quality improvement tools and techniques. This includes knowledge of management and planning tools, quality tools, preventive and corrective actions, and how to overcome barriers to quality improvements.
- Will be able to acquire and analyze data using appropriate standard quantitative methods across a spectrum of business environments to facilitate process analysis and improvements.

For more Minimum Expectations, click here:

<http://prdweb.asq.org/certification/control/quality-engineer/right-for-you>

Body of Knowledge

- Management and Leadership (15 Questions)
- The Quality System (15 Questions)
- Product and Process Design (25 Questions)
- Product and Process Control (32 Questions)
- Continuous Improvement (30 Questions)
- Quantitative Methods and Tools(43 Questions)