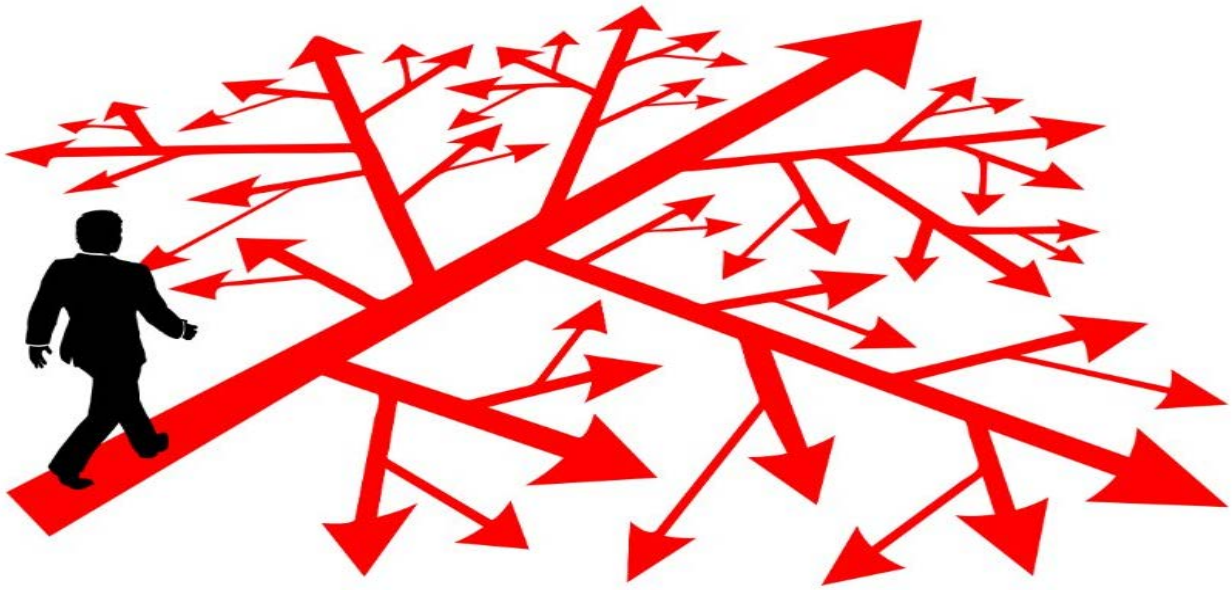
US Army BOSS Program Information Session

American Society for Quality



Choices and Challenges for the Future

10 September 2017

Certified Lean Six Sigma Black Belt
Certified Change Management Advanced Practitioner
Senior Member, American Society for Quality

ASQ Section 1404 San Antonio, Texas

ASQ
The Global Voice of Quality™

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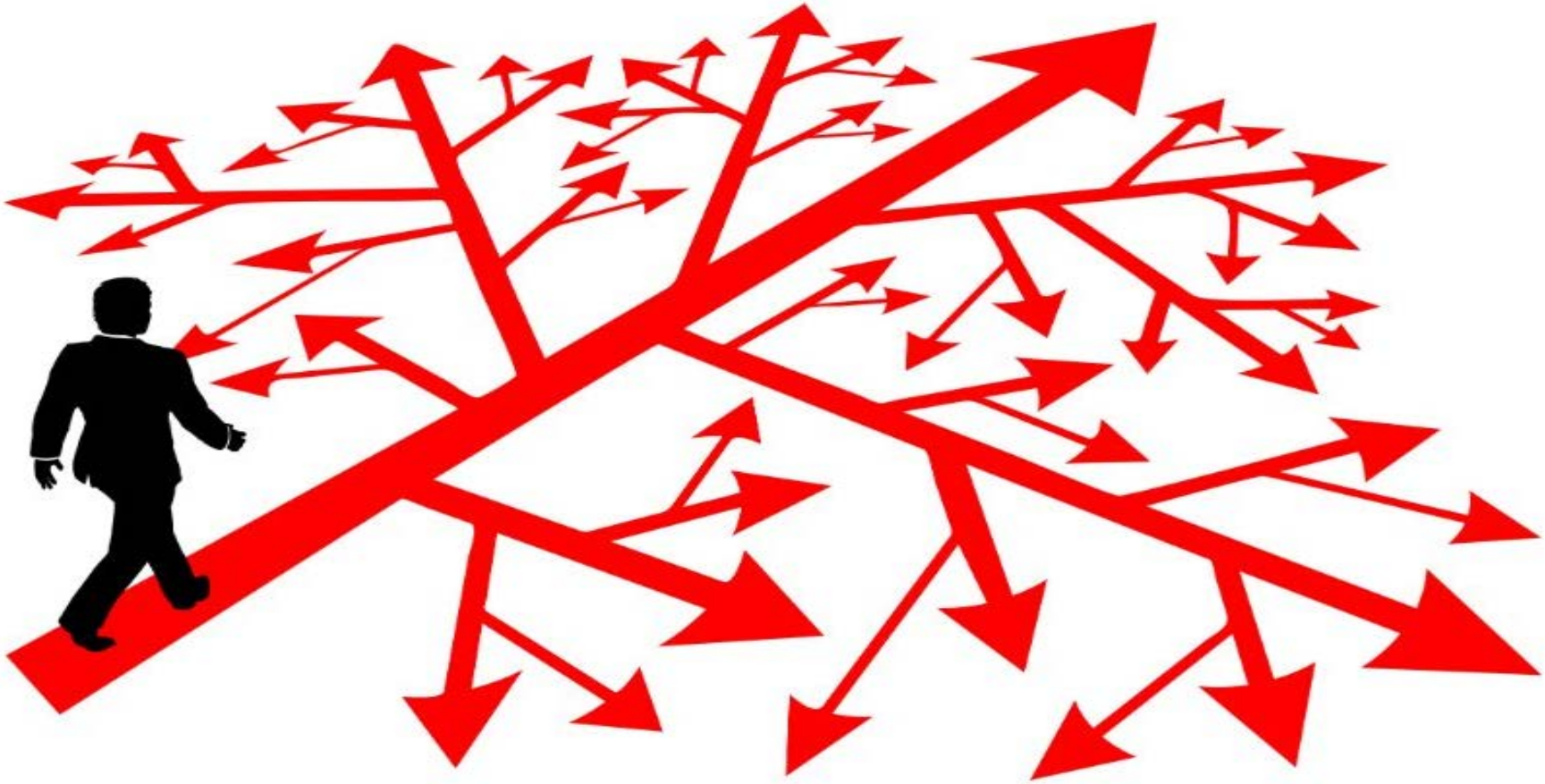
Choices and Challenges for the Future



Do you know where you will be in the next 5 – 20 years?

As a member of the BOSS Program, you are already working on determining your future, whether you choose to stay in the Military or return to civilian life.

The Focus of Today's Presentation

ASQ®

The Global Voice of Quality™

Today's short briefing will introduce you to the American Society for Quality, and offer you some practical ideas for ensuring a successful future in several Military or Civilian career fields.

What is ASQ?

The American Society for Quality

is a knowledge-based global community of quality professionals, with nearly 80,000 members dedicated to promoting and advancing quality tools, principles, and practices.

ASQ®

The Global Voice of Quality™

ASQ provides the global community with the expertise, tools, and solutions to help organizations and individuals improve the products, services, and experiences we rely upon for our safety, health, and daily lives.

The ASQ mission is to increase the use and impact of quality in response to the diverse needs of the world.

Founded in 1946, ASQ has been at the forefront of the quality movement and traces its beginnings to the end of World War II, as quality experts sought ways to sustain quality improvement.

What is ASQ?

Today, ASQ continues to support innovations in many fields.

- **ASQ helps individuals achieve career success by offering knowledge resources, professional training, and certification.**
- **ASQ offers organizational assessment tools and culture of quality workshops to help businesses and organizations strengthen and grow.**
- **ASQ helps organizations find solutions to their business problems while uncovering opportunities to make their organizations work better.**

Choices and Challenges for the Future

Choices and Challenges for the Future

Value of Participation

- Industry Standards
- Certification has been rated one of the top three most-valued benefits of ASQ membership since 1991.

http://www.asqsa.org/

ASQ Certifications

- Certified Quality Engineer
- Certified Quality Technician
- Certified Reliability Engineer
- Certified Mechanical Inspector
- Certified Quality Auditor
- Certified Manager of Quality
- Certified Software Quality Engineer
- Certified Hazard Analysis and Critical Control Point (HACCP) Auditor
- Certified Quality Improvement Associate
- Six Sigma Black Belt
- CQA-Biomedical
- Certified Calibration Technician
- Certified Quality Process Analyst
- Certified Six Sigma Green Belt
- Certified Pharmaceutical GMP Professional
- Certified Master Black Belt

Choices and Challenges for the Future

ASQ Section 1404

'The society advances learning, quality improvement, and knowledge exchange to improve business results. By making quality a global priority, an organizational imperative, and a personal ethic, the society becomes the community for everyone who seeks technology, concepts, or tools to improve themselves and their world...'

San Antonio Section
ASQ The Global Voice of Quality™

ASQSA Mission

Promote the advancement of the Quality Profession and create value for our section members, business partners and the local communities... (Continue Reading)

Why? What's is value-added for you?

ASQ certification is formal recognition by ASQ that an individual has demonstrated proficiency in, and comprehension of, a specified Body of Knowledge at a point in time.

Internationally accepted and recognized as a symbol of excellence, for more than 40 years

Acquire new skills and upgrade proficiency

Additional source of professional and personal pride

Invest in their careers

-- Perfecting and sharing new techniques in the workplace.

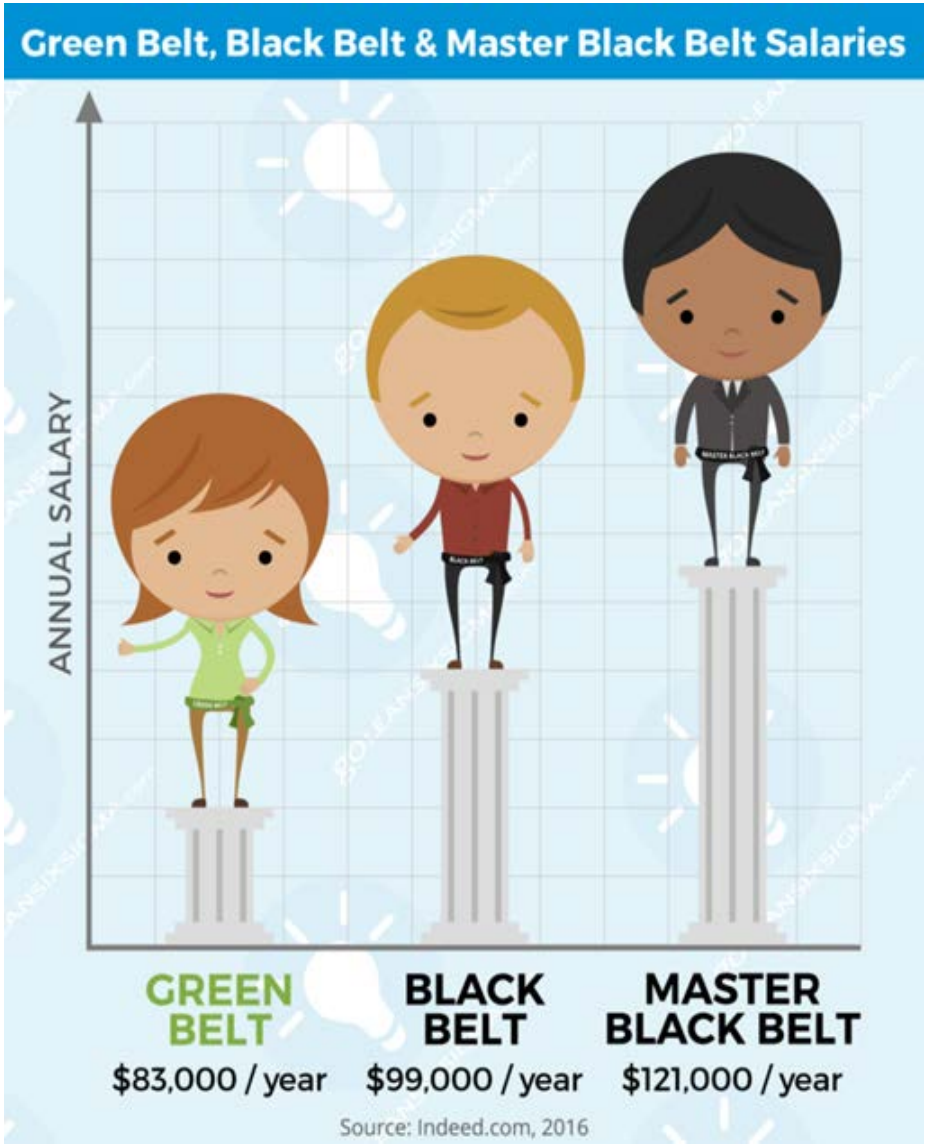
-- A discriminator in the marketplace & A mark of technical excellence.

-- Currency with emerging technologies.

-- Knowledgeable employees, better able to assure product and service quality

ASQ

Show me the money !



- There's good reason why so many people get ASQ certification.
- According to the latest ASQ salary survey, those with certificates earn considerably more than those without.

What is ASQ Certification?

A formal recognition by ASQ that an individual has demonstrated a proficiency within, and comprehension of, a specified Body of Knowledge at a point in time.

- Internationally accepted and recognized
- 17 various certification programs from basic to advanced
- Recognition of excellence for 44 years
- Certified over 120,000 individuals globally
- Endorsed by over 125 corporations

ASQ

So… Are you “Certifiable” ?

The answer is YES!

But you have to plan and prepare for ASQ Certifications.

So… Are you “Certifiable” ?

All candidates for certification must demonstrate "proof of professionalism" to ASQ. This can be done in one of three ways:

- **Membership in ASQ, an international affiliate society of ASQ, or another society that is a member of the American Association of Engineering Societies or the Accreditation Board for Engineering and Technology**
- **Registration as a Professional Engineer**
- **The signatures of two people--ASQ members, members of an international affiliate society or members of another recognized professional society--verifying that you are a qualified practitioner of the quality sciences**

So… Are you “Certifiable” ?

- Certification candidates are required to pass a written exam that consists of multiple-choice questions that measure comprehension of the certificate's body of knowledge.
- ASQ holds exams throughout the year at meeting places of ASQ sections and international organizations. (Usually occurs twice each year).
- All examinations are open-book. Participant must bring his or her own reference materials.
- In order to prepare for the exam, you need to know which certificate to pursue. Go to the ASQ website for a brief overview of each ASQ certificate.
- Remember that this is just a starting point. Be sure to contact ASQ for more information.

Prepare, prepare, prepare!

- This overview of the various ASQ certification programs is just that, an overview.
- Each of the certificates has its own unique requirements, qualifications and body of knowledge.
- In order to ensure a successful journey to certification, do your homework and begin making a plan.
- Visit ASQ's Web site and carefully review the requirements, sample questions, body of knowledge and suggested reference lists.
- Good luck!

Check out the ASQ Facebook Page

Check out ASQ

ASQ helps individuals and organizations optimize quality to propel their careers and businesses forward.

Get the competitive edge.
Contact ASQ today!

End of Brief

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Choices and Challenges for the Future

Thank You

For your participation in today's training

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The Global Voice of Quality™

10 September 2017

Rodolfo A. Morales Miranda

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BACK UP SLIDES

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Certified Quality Engineer (CQE)

This certification is designed for those who understand the principles of product and service quality evaluation and control. Candidates must have a minimum of eight years of on-the-job experience in one or more of the areas of the Certified Quality Engineer body of knowledge. A minimum of three years of this experience must be in a decision-making position.

As outlined in the body of knowledge for the CQE exam, candidates are expected to have in-depth knowledge of management and leadership in quality engineering; quality systems development, implementation and verification; planning, controlling and assuring product and process quality; reliability and risk management; problem solving and quality improvement; and quantitative methods.

Each certification candidate is required to pass a written examination consisting of multiple-choice questions that measure comprehension of the certificate's body of knowledge. The CQE examination is a one-part, 160-question, five-hour test. ASQ holds exams in June and December.

Certified Six Sigma Black Belt (CSSBB)

Six Sigma Black Belt certification is designed for those who have a comprehensive understanding of Six Sigma and its methodologies. ASQ requires applicants to complete two projects with signed affidavits or one completed project with signed affidavit and three years of work experience within the Six Sigma Black Belt body of knowledge. Applicants can download the affidavit form from the certification section of ASQ's Web site.

As outlined in the body of knowledge for the Six Sigma Black Belt exam, candidates are expected to have in-depth knowledge of enterprisewide deployment; business process management; project management; Six Sigma improvement methodology and tools, which cover the entire define, measure, analyze, improve and control cycle; lean enterprise; and design for Six Sigma. ASQ holds exams in March and October.

Certified Quality Auditor (CQA)

This certification is designed for those who understand the standards and principles of auditing and the auditing techniques of examining, questioning, evaluating and reporting to determine quality systems adequacy.

In order to sit for the exam, candidates must have a minimum of eight years of on-the-job experience in one or more of the areas of the Certified Quality Auditor body of knowledge. A minimum of three years of this experience must be in a decision-making position.

As outlined in the body of knowledge for the CQA exam, candidates are expected to have in-depth knowledge of ethics, professional conduct and liability issues; audit preparation; audit performance; audit reporting; corrective action follow-up and closure; audit program management; and general knowledge and skills.

Each certification candidate is required to pass a written examination that consists of multiple-choice questions designed to measure comprehension of the certificate's body of knowledge. The CQA examination is a one-part, 150-question, four-hour test. ASQ holds exams in June and December.

Certified Quality Auditor—Biomedical (CQA-B)

This is one of the newest ASQ certifications. It is specifically designed for auditors who work in the biomedical field. In order to sit for the exam, you must be an ASQ Certified Quality Auditor and have two years of experience working with quality audits in the biomedical technology areas. This two-year requirement can be part of the eight-year requirement used for the CQA exam.

The body of knowledge for the CQA-Biomedical certification covers medical devices (including in vitro diagnostics and biologics regulated as medical devices) and focuses on the understanding of national and international concepts and principles of biomedical quality auditing (including related regulations, directives, standards and guidance).

Each certification candidate is required to pass a written examination that consists of multiple-choice questions measuring comprehension of the certificate's body of knowledge. The CQA-Biomedical examination is a one-part, 100-question, four-hour test. Sample examination questions are currently being developed by ASQ and will be available in July 2002. ASQ holds exams in March and October.

Certified Quality Auditor—HACCP (CQA-HACCP)

Like the CQA-Biomedical certification, the CQA-HACCP program is an add-on to the Quality Auditor certificate. It is specifically designed for those who are involved in hazard analysis and critical control point auditing. In order to sit for the exam, you must be an ASQ Certified Quality Auditor and have two years of experience auditing to the HACCP standards. This two-year requirement can be part of the eight-year requirement used for the CQA exam.

As outlined in the body of knowledge for the CQA exam, candidates are expected to have in-depth knowledge of HACCP, prerequisite programs, HACCP plan development, and implementation and maintenance of HACCP systems.

Each certification candidate must pass a written examination that consists of multiple-choice questions that measure comprehension of the certificate's body of knowledge. The CQA-HACCP examination is a one-part, 100-question, four-hour test. ASQ holds exams in March and October.

Certified Reliability Engineer (CRE)

This certification is designed for those who understand the principles of performance evaluation and prediction to improve product/systems safety, reliability and maintainability.

In order to sit for the exam, candidates must have a minimum of eight years of on-the-job experience in one or more of the areas of the CRE body of knowledge. A minimum of three years of this experience must be in a decision-making position. As outlined in the body of knowledge for the CRE exam, candidates are expected to have in-depth knowledge of reliability management, probability and statistical tools, modeling and prediction, data collection and analysis and corrective action, reliability tools in design and development, maintainability and availability, reliability testing, and product safety and liability.

Each certification candidate is required to pass a written examination that consists of multiple-choice questions that measure comprehension of the certificate's body of knowledge. The CRE examination is a one-part, 150-question, four-hour test. ASQ holds exams in March and October.

Certified Quality Technician (CQT)

This certificate is designed for those who can analyze quality problems, prepare inspection plans and instruction, select sampling plan applications and apply fundamental statistical methods for process control.

In order to sit for the exam, candidates must have at least four years of higher education and/or work experience in one or more of the areas of the Certified Quality Technician body of knowledge.

As outlined in the body of knowledge for the CQT exam, candidates are expected to have in-depth knowledge of quality concepts and tools, statistical techniques, metrology and calibration, inspection and test, quality audits, and preventive and corrective action.

Each certification candidate is required to pass a written examination of multiple-choice questions that measure comprehension of the certificate's body of knowledge. The CQT examination is a one-part, 100-question, four-hour test. ASQ holds exams in March and October.

Certified Mechanical Inspector (CMI)

This certificate is designed for those who, under professional direction, can evaluate hardware documentation, perform laboratory procedures, inspect products, measure process performance, record data and prepare formal reports.

In order to sit for the exam, candidates must have two years of on-the-job experience in mechanical inspection or a related field and a high-school diploma or GED. If the applicant does not have a high school diploma or GED, an additional three years of related on-the-job experience is required.

As outlined in the body of knowledge for the CMI exam, candidates are expected to have in-depth knowledge of technical mathematics, inspection and test, measurement tools, statistical techniques, and quality improvement.

Each certification candidate is required to pass a written examination that consists of multiple-choice questions measuring comprehension of the certificate's body of knowledge. The CMI examination is a one-part, 100-question, four-hour test. ASQ holds exams in March and October.

Certified Quality Manager (CQM)

This certification is designed for those who understand quality principles and standards in relation to organization and human resource management.

In order to sit for the exam, candidates must have a minimum of 10 years of on-the-job or educational experience in one or more of the areas of the Certified Quality Manager body of knowledge. A minimum of five years of this experience must be in a decision-making position.

As outlined in the body of knowledge for the Certified Quality Manager exam, candidates are expected to have in-depth knowledge of leadership, strategy development and deployment, quality management tools, customer-focused organizations, supplier performance, management, and training and development.

Each certification candidate is required to pass a written examination of 150 multiple-choice and two essay questions that measure comprehension of the certificate's body of knowledge. The Certified Quality Manager examination is a two-part, four-hour test. ASQ holds exams in March and October.

Certified Software Quality Engineer (CSQE)

This certification is designed for those who have a comprehensive understanding of software quality development and implementation; have a thorough understanding of software inspection and testing, verification, and validation; and can implement software development and maintenance processes and methods.

In order to sit for the exam, candidates must have a minimum of eight years of on-the-job experience in one or more of the areas of the Certified Software Quality Engineer body of knowledge, which has recently been updated for the June 2002 exam. A minimum of three years of this experience must be in a decision-making position.

As outlined in the body of knowledge for the CSQE exam, candidates are expected to have in-depth knowledge of conduct and ethics; software quality management; software processes; software project management; software metrics, measurement and analytical methods; software inspection, testing, verification and validation; software audits; and software configuration management.

Each certification candidate is required to pass a written examination consisting of multiple-choice questions that measure comprehension of the certificate's body of knowledge. The CSQE examination is a one-part, 160-question, four-hour test. ASQ holds exams in June and December.

Certified Quality Improvement Associate (CQIA)

This certificate is designed to assess basic knowledge of quality tools and their uses by individuals who are involved in quality improvement projects, but do not necessarily come from traditional quality areas.

In order to sit for the exam, candidates must have two years of work experience or an associate degree.

As outlined in the body of knowledge for the CQIA exam, candidates are expected to have in-depth knowledge of quality basics, teams and continuous improvement.

Each certification candidate is required to pass a written examination that consists of multiple-choice questions that measure comprehension of the certificate's body of knowledge. The CQIA examination is a one-part, 100-question, three-hour test. ASQ holds exams in June and December.