

Free Guide

CQE: Certified Quality Engineer



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www.ag5.com | info@ag5.com | [+31 20 463 0942](tel:+31204630942)

What is a Certified Quality Engineer?

A CQE is an engineering professional with expertise in quality control and assurance. The certification is issued by the American Society for Quality (ASQ).

Certified Quality Engineers are trained in statistical analysis, quality management principles, process improvement methodologies, and auditing techniques to ensure products and processes meet quality standards and compliance requirements.

Who needs a CQE certification?

A CQE certification is beneficial for organizations in industries such as manufacturing, healthcare, and technology, who want to demonstrate their employees' expertise in quality control, process improvement, and product quality assurance.

The certification is not typically mandatory by law or regulation for most professions or industries. However, some employers may require or prefer employees to have this certification, especially in roles related to quality control and assurance.

How to become a Certified Quality Engineer

Candidates for CQE certification will need eight years of experience in an area of [the CQE “Body of Knowledge” outlined by the ASQ](#), which include quality systems, quality audits, and product and process control. Three of those years must be in a leadership position. Those that possess degrees from accredited educational institutions are eligible to have part of this required waived, depending on the level of diploma or degree.

Should they possess the required experience, candidates can then apply and register with the ASQ for the CQE exam. The CQE exam consists of 175 multiple choice questions and takes more than five hours to complete. It costs USD \$533. Exam retakes cost USD \$333.

Renewal requirements for CQE certification

CQE certifications are valid for three years. During this time, certification holders must earn 18 “recertification units” through the ASQ by attending courses, conferences, or other forms of professional development. Alternatively, they can also opt to retake the CQE exam.

The benefits of CQE certification

CQE-certified employees offers several benefits to organizations. Some key advantages include the following:



Improved quality management

CQE-certified professionals possess a deep understanding of quality management principles, statistical analysis, and process improvement methodologies. Their expertise enables organizations to implement effective quality control measures, reduce defects, and enhance product or service quality.



Cost savings

Through their ability to identify and address quality issues early in the production or service delivery process, CQE-certified individuals can help organizations save money by reducing waste, rework, and customer complaints. This leads to improved efficiency and cost-effectiveness.



Enhanced customer satisfaction

Quality plays a crucial role in customer satisfaction. CQE-certified employees can contribute to higher customer satisfaction levels by ensuring that products or services meet or exceed customer expectations. This can lead to increased customer loyalty and positive word-of-mouth, benefiting the organization's reputation and bottom line.

Challenges in CQE certification



Exam complexity and difficulty

The CQE certification exam is known for its complexity and rigor. It covers a wide range of quality engineering topics, including statistical analysis, quality management systems, and process improvement methodologies. Individuals preparing for the exam may find it challenging to grasp all the necessary concepts and apply them effectively during the test.



Time and resource commitment

Preparing for the CQE certification exam can be a time-consuming and resource-intensive process. It often requires individuals to dedicate significant time to study and practice, attend training courses, and invest in study materials and resources. Balancing these commitments with work and other responsibilities can be a challenge.



Continuing education requirements

To maintain CQE certification, individuals must fulfill ongoing continuing education requirements, such as earning recertification units (RUs). This involves staying updated with evolving industry standards and practices, which can be demanding for professionals with busy schedules. Failure to meet these requirements can lead to certification lapses.

Tips and strategies for preparing for a CQE certification

Here are a few tips for preparing for CQE certification:

- Familiarize yourself with the CQE exam format, including the number of questions, time limits, and the content areas covered to better plan your study strategy.
- Develop a structured study plan that outlines what topics you'll cover each day or week. Allocate sufficient time for each subject and stick to your schedule.
- Utilize official study materials provided by the ASQ. These resources are tailored to the exam content and provide accurate information.
- Practice answering CQE sample questions and past exam papers. This helps you become familiar with the question style and reinforces your understanding of key concepts.
- Consider joining or forming a study group with fellow CQE candidates. Collaborative learning can provide different perspectives and help you stay motivated throughout your preparation.

Resources for CQE certification

For more information and guidance on CQE certification, refer to the following sources.

American Society for Quality. The [ASQ is the official certification body for CQE certification](#). Its website offers a wealth of resources, including exam information, the CQE “Body of Knowledge” and a [guide to CQE certification](#).

Engineering skills matrices. AG5 offers several [free skills matrices](#) dedicated to the engineering. You can use it to identify, track, and manage skills related to CQE certifications in your organization.

Skills Management

Skills Management for Certified Quality Engineers

AG5 stores all certifications in the cloud, providing all authorized personnel with access to the right version of approved certifications. This helps you easily keep track of all data and documentation related to CQE certification across your organization.

Using [AG5's skills management software](#), you can monitor the status of any type of certification that is relevant to your workforce, leveraging intuitive dashboards that provide you with a clear understanding of exactly what is needed to keep your employees skilled and safe.

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Frequently asked questions about CQE certification

What is the scope of a CQE certification?

A CQE certification signifies expertise in quality management, statistical analysis, and process improvement.

Is CQE certification mandatory?

CQE certification is not mandatory, but may be required by certain organizations or for certain roles.

How long does it take to obtain CQE certification?

Preparation times will vary, depending on the candidate. However, all candidates are given five hours and 18 minutes to complete the exam.

What are the cost considerations for CQE certification?

The cost considerations for Certified Quality Engineer (CQE) certification include exam fees (USD \$533) study materials, training courses, potential retake fees (USD \$333), and ongoing expenses for maintaining certification through recertification requirements.

What is the validity period of CQE certification?

CQE certifications are valid for three years. They can be renewed through ASQ-approved methods of professional development, or by retaking the CQE exam.

Can CQE be integrated with other management systems?

Yes, CQE principles and methodologies can be integrated with other management systems, such as [ISO 9001 \(Quality Management\)](#) or [ISO 14001 \(Environmental Management\)](#), to enhance overall organizational performance and efficiency.

How can you learn more about CQE certification?

Visit the [American Society of Quality's website](#).

Sources

- [American Society for Quality](#)
- [CQE Body of Knowledge](#)
- [Why Become a Certified Quality Engineer?](#)

Author



[Rick van Echtelt](#)

Rick van Echtelt is the Co-Founder and CEO of AG5, where he leverages over two decades of experience in entrepreneurship and developing skills management software.

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Written by: [Rick van Echtelt](#)

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