

*Free Guide*

# CMfgT: Certified Manufacturing Technologist



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# What is a Certified Manufacturing Technologist?

A CMfgT certification is offered by the Society of Manufacturing Engineers (SME). It is designed for entry-level manufacturing engineers, or those who are experienced yet uncredentialed.

The certification covers a comprehensive “Body of Knowledge” related to manufacturing engineers. This includes topics such as:

- **Manufacturing foundations.** Covers mathematics, engineering science, and environmental health and safety factors.
- **Manufacturing process application.** Covers various manufacturing materials, processes, and post-processing techniques.
- **Design and development.** Covers intellectual property protection, CAD, CAE, and equipment and tool design and development.
- **Quality.** Covers Quality Management Systems (QMS), statistical control methods, and inspection, test, and validation methods.

You can read the full CMfgT Body of Knowledge on the SME’s website, which is linked below.

## Who needs a CMfgT certification?

A CMfgT is no mandatory, but may be valuable for those seeking to advance their careers. CMfgT-certified employees can also enhance an organization’s professional reputation.

# **How to get a Certified Manufacturing Technologist (CMfgT) certification?**

The SME recommends that those seeking CMfgT certification possess at least four combined years of manufacturing-related work experience or education. Eligible candidates must then apply, schedule and study for the exam. The exam is open note and open book. To pass, candidates will need to score a 60% or higher.

## **Costs of a CMfgT certification**

Costs for the Certified Manufacturing Technologist exam vary based on a candidate's professional and SME membership status. For example, the Certified Manufacturing Technologist exam for a college student SME member costs \$95, whereas a nonmember professional must pay \$490. For full pricing information, visit the SME's website.

## **Renewal requirements for CMfgT certification**

A CMfgT certification is valid for three years. After that time, certification holders must take part in continuing education courses to earn recertification credits.

# The benefits of CMfgT certification

A **CMfgT certification** offers several benefits to individuals and organizations. They include the following.



## Enhanced expertise

A CMfgT certification proves advanced knowledge in manufacturing processes, quality control, and technology.



## Career advancement

CMfgT certification places individuals in a better position for promotions and leadership roles.



## Quality assurance

Organizations benefit from CMfgT-certified professionals by ensuring adherence to high-quality standards.

# Challenges in achieving CMfgT certification

Earning a CMfgT certification may pose several challenges to organizations. They include the following.



## Complexity of exam

Earning a CMfgT certification involves mastering complex manufacturing concepts and technologies, which may pose challenges to candidates.



## Time and resource commitment

Pursuing a CMfgT certification demands a significant investment of time and resources for both employees and their organizations.



## Technological changes

Manufacturing technologies evolve rapidly. Staying current with the latest advancements in the field can present challenges for certification candidates.

# Tips and strategies for preparing for CMfgT certification

Here are a few tips for preparing for CMfgT certification.

- Study the SME's CMfgT Body of Knowledge, which covers the information on the exam.
- Review the SME's Competency Model, which outlines the skills you will need to pass the certification exam.
- Make use of the [SME's "Recommended Reading" books](#).

## Resources for CMfgT certification

For more information and guidance on CMfgT certification, you can refer to the following resources.

**Society of Manufacturing Engineers (SME).** Because the [SME is the only certification body for CMfgT certification, its website](#) should be the primary resource you use. It offers a wealth of information regarding CMfgT certification, the exam, recommended study materials, and more. You will also find the [CMfgT Body of Knowledge](#) and [Competency Model](#) on the SME's website.

## Skills management for CMfgT certification

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 a CMfgT 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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## **FAQs about CMfgT certification**

### **What is the scope of a CMfgT certification?**

A CMfgT certification covers a broad range of manufacturing engineering-related skills and knowledge.

### **Is a CMfgT certification mandatory?**

CMfgT certification is not mandatory.

## **How long does it take to obtain a CMfgT certification?**

This will vary depending on the amount of study time needed by the candidate.

## **What are the cost considerations for a CMfgT certification?**

The main cost considerations are the exam fees, which range from \$95 to \$520 depending on the candidate and type of exam (online or paper).

## **What is the validity period of a CMfgT certification?**

A CMfgT certification is valid for three years.

## **Can a CMfgT certification be integrated with other management systems?**

Yes, a Certified Manufacturing Technologist (CMfgT) certification can be integrated with other management systems such as ISO 9001 (Quality Management) or ISO 14001 (Environmental Management).

## **How can you learn more about CMfgT certification?**

Visit the [SME's website](#).

## **Resources**

- [Society of Manufacturing Engineers \(SME\)](#)

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## Author



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## Revisions

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