

# CompTIA

## CompTIA A+ Computer Service Technician

As an IT professional, the value of certification is without question. Cement your knowledge of computer operating systems, networking, using mobile devices and understanding the importance of security. CompTIA® A+ certifications are the benchmark of most entry-level positions in Information Technology. Achieve professional accreditation AND make yourself more marketable to employers. Completing two classes, Hardware and Software, will prepare you to achieve CompTIA® A+ certification, and put you on the path to a rewarding career as an IT professional. Upon completion of both courses, you will have basic knowledge of configuring, installing, diagnosing, repairing, upgrading and maintaining computers and associated technologies.

Course Code	Course Title	CEUs
CPC-601	CompTIA® A+ Core 1	3
CPC-602	CompTIA® A+ Core 2	3

For information on current course offerings and how to register, go to [www.ccm.edu/workforce/](http://www.ccm.edu/workforce/) (<https://www.ccm.edu/workforce/>)

### Certification

You do not need to enroll in the certificate program to benefit from these courses. Upon completion of both courses, you may be awarded the CompTIA A+ Computer Service Technician Certificate of Completion. See "Certificates and Transcripts (<http://catalog.ccm.edu/noncredit/general-information/>)."

## CompTIA Network+ Certification

**PREREQUISITE:** Regardless of whether you have passed A+ certification, it is necessary to have the following skills and knowledge to take this course:

- Configure and support PC, laptop, mobile (smartphone/tablet) and print devices
- Know basic network terminology and functions (such as Ethernet, TCP/IP, switches, routers)
- Configure and manage users, groups and shared resources in a simple SOHO network
- Understand the use of basic access control measures, such as authentication, security policy, encryption and firewalls

This course will enable IT professionals with job roles such as network administrator, network technician, network installer, help desk technician and IT cable installer to prepare for and pass the Network+ certification exam.

Achieving the CompTIA® Network+ certification validates that the holder has the knowledge and skills required to troubleshoot, configure and manage common network wireless and wired devices; establish basic network design and connectivity; understand and maintain network documentation; identify network limitations and weaknesses; and implement network security, standards and protocols. Through this course, students will have a basic understanding of emerging technologies including unified

communications, mobile, cloud and virtualization technologies. The CompTIA® exam registration fee is not included in the course.

Course Code	Course Title	CEUs
CPC-606	CompTIA Network+	4

For information on current course offerings and how to register, go to [www.ccm.edu/workforce/](http://www.ccm.edu/workforce/) (<https://www.ccm.edu/workforce/>)

## CompTIA Security+ Certification

CompTIA® Security+

**PREREQUISITE:** It is necessary to have the following skills and knowledge to take this course:

- Understand basics of encryption, data protection and incident response.
- Have basic understanding of how network security, compliance and operational security and application security works.
- Configure and manage users, groups and shared resources on a network.
- Understand the use of access control measures, authentication, security policy and firewalls.

The CompTIA® Security+ course will teach the knowledge and skills required to install and configure systems to secure applications, networks, and devices; perform threat analysis and respond with appropriate mitigation techniques; participate in risk mitigation activities; and operate with an awareness of applicable policies, laws, and regulations. Key concepts include threats attacks and vulnerabilities, technologies and tools, architecture and design, identity and access management, risk management and cryptography and PKI.

Security+ emphasizes hands-on practical skills, ensuring the security professional is better prepared to problem solve a wider variety of network issues. This course focuses on the latest trends and techniques in risk management, risk mitigation, threat management and intrusion detection. This certification covers the Junior IT Auditor/Penetration Tester job role, in addition to the previous job roles for Systems Administrator, Network Administrator, and Security Administrator.

This course will enable IT professionals with job roles such as Network Engineer, Systems Administrator, Information Security Analyst, or Information Technology Manager to prepare and pass the CompTIA® Security+ certification. The CompTIA® exam registration fee is not included in the course.

This program requires a textbook. Please see 'Textbook Information' under General Information (<http://catalog.ccm.edu/noncredit/general-information/>).

Course Code	Course Title	CEUs
CPC-611	CompTIA Security+	4

For information on current course offerings and how to register, go to [www.ccm.edu/workforce/](http://www.ccm.edu/workforce/) (<https://www.ccm.edu/workforce/>)

## Courses

### CompTIA® A+ Core 1

**PREREQUISITE:** Working knowledge of personal computers. This course will give you the foundations needed for the hardware portion of the CompTIA® A+ certification. Topics include installing, building, repairing, configuring, troubleshooting, and preventive maintenance of hardware. Through lectures and labs, you'll learn how to select parts and build your own computer, configure, troubleshoot, and maintain systems hardware. A list of required tools will be distributed at the first class meeting. CPC-601.

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### CompTIA® A+ Core 2

**PREREQUISITE:** Working knowledge of personal computers. This course will give you the foundations needed for the software portion of the CompTIA® A+ certification exam. Topics include installing, building, repairing, configuring, and troubleshooting. Through lectures and labs, you will learn how to install and set up operating systems, configure, troubleshoot, maintain and manage hardware using operating systems. CPC-602.

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### CompTIA Network+

**PREREQUISITE:** Regardless of whether you have passed A+ certification, it is necessary to have the following skills and knowledge to take this course: Configure and support PC, laptop, mobile (smartphone/tablet) and print devices; Know basic network terminology and functions (such as Ethernet, TCP/IP, switches, routers); Configure and manage users, groups and shared resources in a simple SOHO network; Understand the use of basic access control measures, such as authentication, security policy, encryption and firewalls. This course enables IT professionals with job roles such as network administrator, network technician, network installer, help desk technician and IT cable installer to prepare for and pass the Network+ certification exam. Achieving the CompTIA® Network+ certification validates that the holder has the knowledge and skills required to troubleshoot, configure and manage common network wireless and wired devices; establish basic network design and connectivity; understand and maintain network documentation; identify network limitations and weaknesses; and implement network security, standards and protocols. Through this course, students will have a basic understanding of emerging technologies including unified communications, mobile, cloud and virtualization technologies. The CompTIA® exam registration fee is not included in the course. CPC-606.

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### CompTIA Security+

**PREREQUISITE:** It is necessary to have the following skills and knowledge to take this course: Understand basics of encryption, data protection and incident response; Understand how network security, compliance and operational security and application security work; Configure and manage users, groups and shared resources on a network; Understand the use of access control measures, authentication, security policy and firewalls. The CompTIA® Security+ course will teach the knowledge and skills required to install and configure systems to secure applications, networks, and devices; perform threat analysis and respond with

appropriate mitigation techniques; participate in risk mitigation activities; and operate with an awareness of applicable policies, laws, and regulations. Key concepts include threats attacks and vulnerabilities, technologies and tools, architecture and design, identity and access management, risk management and cryptography and PKI. Security+ emphasizes hands-on practical skills, ensuring the security professional is better prepared to problem solve a wider variety of network issues. This course focuses on the latest trends and techniques in risk management, risk mitigation, threat management and intrusion detection. This certification covers the Junior IT Auditor/Penetration Tester job role, in addition to the previous job roles for Systems Administrator, Network Administrator, and Security Administrator. This course will enable IT professionals with job roles such as Network Engineer, Systems Administrator, Information Security Analyst, or Information Technology Manager to prepare and pass the Security+ certification. The CompTIA® exam registration fee is not included in the course. CPC-611.

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