

# CompTIA+ Certification Pro

## LEARNING OBJECTIVES



Technology is complicated. It moves fast. It's always evolving. And it's essential to the success of any business — big or small. That means there's plenty of opportunity for professionals with a knack for IT security, OS installation, and firewall maintenance. This program includes unparalleled training, career support, and coaching. It's a faster, cheaper alternative to traditional schooling designed to help you build on the foundation you've already established and advance in your HIT career.

### Program Orientation:

- Identify the elements, expectations, and requirements of the program.
- Navigate the program using the pages, menus, and buttons provided.
- Use the program tools, including the study planner, gradebook, and completion report and be able to contact Career Step via phone, email, forums, chat rooms, and social media.
- Identify and use program-specific resources.

### A+ Core 1:

- Disassemble and reassemble a desktop computer safely.
- Disassemble and reassemble a laptop computer safely.
- Describe and contrast various types and features of motherboards.
- Configure a motherboard using BIOS/UEFI firmware.
- Maintain a motherboard by updating drivers and firmware, using jumpers to clear BIOS/UEFI settings, and replacing the CMOS battery.
- Select, install, and support a hard drive.
- Explain the TCP/IP protocols and standards Windows uses for networking.
- Identify, compare, and contrast hardware used to build local networks.
- Troubleshoot network connectivity problems caused by firmware, operating systems, and applications
- Identify and use significant features of Android, iOS, Windows Mobile, and Chrome OS mobile operating systems.
- Support cloud computing services on a network.
- Install and share printers and manage printer features, add-on devices, and the printer queue.

### A+ Core 2:

- Plan a Windows installation.
- Configure Windows settings after the installation.
- Describe special concerns when installing Windows in a large enterprise.
- Use Windows tools, including Disk Management, to manage hard drives.
- Explain how to secure resources on a network via physical and logical access, control, user authentication, and user education
- Recognize malicious software and remove it to protect personal computers.
- Use and support macOS for Apple computers.
- Use and support Linux distributions with graphical and command-line interfaces.

### Network+:

- Distinguish between client-server and peer-to-peer models used to control access to a network.
- Configure TCP/IP settings on a computer, including IP address, subnet mask, default gateway, and DNS servers.
- Explain the purpose of ports and sockets, and identify the ports of several common, network protocols.
- Explain basic data transmission concepts, including throughput, bandwidth, multiplexing, and common transmission flaws.
- Identify and describe the physical characteristics and official standards of coaxial cable, twisted-pair cable, and fiber-optic cable, and their related connectors.
- Describe cloud computing categories and models, and discuss concerns regarding cloud connectivity and security.
- Secure network connections using encryption protocols.
- Configure remote access connections between devices.
- Explain the most common wireless WAN technologies.

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### Security+:

- Define information security and Identify threat actors and their attributes
- Describe the different types of vulnerabilities and impact of attacks
- Identify the different types of attacks using malware
- Explain how to create and deploy SecDevOps
- Describe the vulnerabilities and protections of embedded and specialized devices
- Describe the components of Public Key Infrastructure (PKI)
- Describe the different cryptographic protocols
- List different secure network protocols
- Define business continuity
- Describe how to achieve resilience through redundancy
- Describe strategies for reducing risk
- Explain concerns surrounding data privacy
- List methods for protecting data

### Program Completion:

- Prepare to take the next steps after program completion.