

The Official CompTIA A+ Core 1 and Core 2 Student Guide (Exams 220-1101 and 220-1102)

Course Summary

Description

The Official CompTIA A+ Core 1 & Core 2 Student Guide (220-1101 & 220-1102) have been developed by CompTIA for the CompTIA A+ Core 1 & Core 2 candidate. Rigorously evaluated to validate coverage of the CompTIA A+ Core 1 & Core 2 (220-1101 & 220-1102) exam objectives, The Official CompTIA A+ Core 1 & Core 2 Student Guide teach the knowledge and skills to install and configure end-user devices and software, connect devices to networks, perform basic cybersecurity mitigations, troubleshoot common problems to diagnose and resolve issues, and demonstrate basic knowledge of scripting, the cloud, and virtualization, and prepare candidates to take the CompTIA A+ Core 1 & Core 2 certification exam.

Topics

- Installing Motherboards and Connectors
- Installing System Devices
- Troubleshooting PC Hardware
- Comparing Local Networking Hardware
- Configuring Network Addressing and Internet Connections
- Supporting Network Services
- Summarizing Virtualization and Cloud Concepts
- Supporting Mobile Devices
- Supporting Print Devices
- Configuring Windows
- Managing Windows
- Identifying OS Types and Features
- Supporting Windows
- Managing Windows Networking
- Managing Linux and macOS
- Configuring SOHO Network Security
- Managing Security Settings
- Supporting Mobile Software
- Using Support and Scripting Tools
- Implementing Operational Procedures
- Appendix A: Mapping Course Content to CompTIA A+ Core 1 (220-1101)
- Appendix B: Mapping Course Content to CompTIA A+ Core 2 (220-1102)

Audience

This course is designed for individuals who have basic computer user skills and who are interested in obtaining a job as an entry-level IT technician.

Prerequisites

To ensure your success in this course, you should have experience with basic computer user skills, be able to complete tasks in a Microsoft Windows environment, be able to search for, browse, and access information on the Internet, and have basic knowledge of computing concepts.

Duration

Five days

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Course Outline

- I. *Installing Motherboards and Connectors*
 - A. Explain Cable Types and Connectors
 - B. Install and Configure Motherboards
 - C. Explain Legacy Cable Types
- II. *Installing System Devices*
 - A. Install and Configure Power Supplies and Cooling
 - B. Select and Install Storage Devices
 - C. Install and Configure System Memory
 - D. Install and Configure CPUs
- III. *Troubleshooting PC Hardware*
 - A. Apply Troubleshooting Methodology
 - B. Configure BIOS/UEFI
 - C. Troubleshoot Power and Disk Issues
 - D. Troubleshoot System and Display Issues
- IV. *Comparing Local Networking Hardware*
 - A. Compare Network Types
 - B. Compare Networking Hardware
 - C. Explain Network Cable Types
 - D. Compare Wireless Networking Types
- V. *Configuring Network Addressing and Internet Connections*
 - A. Compare Internet Connection Types
 - B. Use Basic TCP/IP Concepts
 - C. Compare Protocols and Ports
 - D. Compare Network Configuration Concepts
- VI. *Supporting Network Services*
 - A. Summarize Services Provided by Networked Hosts
 - B. Compare Internet and Embedded Appliances
 - C. Troubleshoot Networks
- VII. *Summarizing Virtualization and Cloud Concepts*
 - A. Summarize Client-Side Virtualization
 - B. Summarize Cloud Concepts
- VIII. *Supporting Mobile Devices*
 - A. Set Up Mobile Devices and Peripherals
 - B. Configure Mobile Device Apps
 - C. Install and Configure Laptop Hardware
 - D. Troubleshoot Mobile Device Issues
- IX. *Supporting Print Devices*
 - A. Deploy Printer and Multifunction Devices
 - B. Replace and Print Device Consumables
 - C. Troubleshoot Print Device Issues
- X. *Configuring Windows*
 - A. Configure Windows User Settings
 - B. Configure Windows System Settings
- XI. *Managing Windows*
 - A. Use Management Consoles
 - B. Use Performance and Troubleshooting Tools
 - C. Use Command-line Tools
- XII. *Identifying OS Types and Features*
 - A. Explain OS Types
 - B. Compare Windows Editions
- XIII. *Supporting Windows*
 - A. Perform OS Installations and Upgrades
 - B. Install and Configure Applications
 - C. Troubleshoot Windows OS Problems
- XIV. *Managing Windows Networkings*
 - A. Managing Windows Networking
 - B. Troubleshoot Windows Networking
 - C. Configure Windows Security Settings
 - D. Manage Windows Shares
- XV. *Managing Linux and macOS*
 - A. Identify Features of Linux
 - B. Identify Features of macOS
- XVI. *Configuring SOHO Network Security*
 - A. Explain Attacks, Threats, and Vulnerabilities
 - B. Compare Wireless Security Protocols
 - C. Configure SOHO Router Security
 - D. Summarize Security Measures

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Course Outline (cont)

XVII. Managing Security Settings

- A. Configure Workstation Security
- B. Configure Browser Security
- C. Troubleshoot Workstation Security Issues

XVIII. Supporting Mobile Software

- A. Configure Mobile OS Security
- B. Troubleshoot Mobile OS and App Software
- C. Troubleshoot Mobile OS and App Security

XIX. Using Support and Scripting Tools

- A. Use Remote Access Technologies
- B. Implements Backup and Recovery
- C. Explain Data handling Best Practices
- D. Identify Basics Scripting

XX. Implementing Operational Procedures

- A. Implement Best Practice Documentation
- B. Use Proper Communication Techniques
- C. Use Common Safety and Environment Procedures