CompTIA A+

Course Overview

CompTIA A+ certified professionals are proven problem solvers. They support today's core technologies from security to networking to virtualization and more. CompTIA A+ is the industry standard for launching IT careers into today's digital world.

CompTIA A+ is the only industry recognized credential with performance testing to prove pros can think on their feet to perform critical IT support tasks. It is trusted by employers around the world to identify
the go-to person in end point management & technical support roles. CompTIA A+ appears in more tech support job listings than any other IT credential.

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.

Skills You Will Learn:

- **HARDWARE** - Identifying, using, and connecting hardware components and devices, including the broad knowledge about different devices that is now necessary to support the remote workforce

- **OPERATING SYSTEMS** - Install and support Windows OS including command line & client support. System configuration imaging and troubleshooting for Mac OS, Chrome OS, Android and Linux OS.

- **SOFTWARE TROUBLESHOOTING** - Troubleshoot PC and mobile device issues including common OS, malware and security issues.

- **NETWORKING** - Explain types of networks and connections including TCP/IP, WIFI and SOHO

- **TROUBLESHOOTING** - Troubleshoot real-world device and network issues quickly and efficiently

- **SECURITY** - Identify and protect against security vulnerabilities for devices and their network connections

- **MOBILE DEVICES** - Install & configure laptops and other mobile devices and support applications to ensure connectivity for end- users

- **VIRTUALIZATION & CLOUD COMPUTING** - Compare & contrast cloud computing concepts & set up client-side virtualization

- **OPERATIONAL PROCEDURES** - Follow best practices for safety, environmental impacts, and communication and professionalism

Duration
5 Days

Certifications
220-1101 & 220-1102

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Course Outline

- **Lesson 1: Installing Motherboards and Connectors**
- **Lesson 2: Installing System Devices**
- **Lesson 3: Troubleshooting PC Hardware**
- **Lesson 4: Comparing Local Networking Hardware**
- **Lesson 5: Configuring Network Addressing and Internet Connections**
- **Lesson 6: Supporting Network Services**
- **Lesson 7: Summarizing Virtualization and Cloud Concepts**
- **Lesson 8: Supporting Mobile Devices**
- **Lesson 9: Supporting Print Devices**
- **Lesson 10: Configuring Windows**
- **Lesson 11: Managing Windows**
- **Lesson 12: Identifying OS Types and Features**
- **Lesson 13: Supporting Windows**
- **Lesson 14: Managing Windows Networking**
- **Lesson 15: Managing Linux and macOS**
- **Lesson 16: Configuring SOHO Network Security**
- **Lesson 17: Managing Security Settings**
- **Lesson 18: Supporting Mobile Software**
- **Lesson 19: Using Support and Scripting Tools**
- **Lesson 20: Implementing Operational Procedures**

Course Objectives

The CompTIA A+ Core Series requires candidates to pass two exams: Core 1 (220-1101) and Core 2 (220-1102) covering the following new content, emphasizing the technologies and skills IT pros need to support a hybrid workforce.

- Increased reliance on SaaS applications for remote work

- More on troubleshooting and how to remotely diagnose and correct common software, hardware, or connectivity problems

- Changing core technologies from cloud virtualization and IoT device security to data management and scripting

- Multiple operating systems now encountered by technicians on a regular basis, including the major systems, their use cases, and how to keep them running properly

- Reflects the changing nature of the job role, where many tasks are sent to specialized providers as certified personnel need to assess whether it's best to fix something on site, or to save time and money by sending proprietary technologies directly to vendors

Prerequisites

To learn with the CompTIA A+ Certification Study Guides and prepare for your exams, you should have successfully completed the CompTIA IT Fundamentals course or have some basic experience using a PC, Windows, and browsing the web. Specifically, we recommend that you have the following skills and knowledge before starting this course:

- Recognize the main components of a PC as well as storage media such as USB drives and DVD.

- Start the computer and navigate the operating system desktop.

- Use Windows Explorer to create directories and subdirectories and manage files.

- Use a web browser to view websites.

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