New Horizons®

CompTIA A+ Part 1 (Exam 220-1101)

Summary

Length: 40 hours Level: Foundational

CompTIA A+ certified professionals are proven problem solvers. They support today's core technologies from security to cloud to data management and more. CompTIA A+ is the industry standard for launching IT careers into today's digital world. It is the only industry-recognized credential with performance-based items to prove pros can think on their feet to perform critical IT support tasks in the moment. It is trusted by employers around the world to identify the go-to person in end-point management and technical support roles. CompTIA A+ is regularly re-invented by IT experts to ensure that it validates core skills and abilities demanded in the workplace. This course may earn a Credly Badge.

Learning Objectives

In this course, you will learn to:

Install and configure mobile devices
Compare and contrast networking hardware
Configure internet connections and wireless networking
Troubleshoot hardware and networks
Install motherboards, RAM, storage devices, CPUs and add-on cards
Deploy and configure connected devices
Summarize cloud-computing concepts and virtualization

Course Outline

1. **Lesson 1: Installing Motherboards and Connectors**

    Topic 1A: Explain Cable Types and Connectors
    Topic 1B: Install and Configure Motherboards
    Topic 1C: Explain Legacy Cable Types

2. **Lesson 2: Installing System Devices**

    Topic 2A: Install and Configure Power Supplies and Cooling
    Topic 2B: Select and Install Storage Devices
    Topic 2C: Install and Configure System Memory
    Topic 2D: Install and Configure CPUs

3. **Lesson 3: Troubleshooting PC Hardware**

    Topic 3A: Apply Troubleshooting Methodology
    Topic 3B: Configure BIOS/UEFI
    Topic 3C: Troubleshoot Power and Disk Issues
    Topic 3D: Troubleshoot System and Display Issues

4. **Lesson 4: Comparing Local Networking Hardware**

    Topic 4A: Compare Network Types
    Topic 4B: Compare Networking Hardware
    Topic 4C: Explain Network Cable Types
    Topic 4D: Compare Wireless Networking Types

5.   Lesson 5: Configuring Network Addressing and Internet Connections

Topic 5A: Compare Internet Connection Types
Topic 5B: Use Basic TCP/IP Concepts
Topic 5C: Compare Protocols and Ports
Topic 5D: Compare Network Configuration Concepts

6.   Lesson 6: Supporting Network Services

Topic 6A: Summarize Services Provided by Networked Hosts
Topic 6B: Compare Internet and Embedded Appliances
Topic 6C: Troubleshoot Networks

7.   Lesson 7: Summarizing Virtualization and Cloud Concepts

Topic 7A: Summarize Client-Side Virtualization
Topic 7B: Summarize Cloud Concepts

8.   Lesson 8: Supporting Mobile Devices

Topic 8A: Set Up Mobile Devices and Peripherals
Topic 8B: Configure Mobile Device Apps
Topic 8C: Install and Configure Laptop Hardware
Topic 8D: Troubleshoot Mobile Device Issues

9.   Lesson 9: Supporting Print Devices

Topic 9A: Deploy Printer and Multifunction Devices
Topic 9B: Replace Print Device Consumables
Topic 9C: Troubleshoot Print Device Issues

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. This course is also designed for students who are seeking the CompTIA A+ certification and who want to prepare for the CompTIA A+ Core 1 220-1101 Certification Exam and the CompTIA A+ Core 2 220-1102 Certification Exam.

Prerequisites

While there are no prerequisites for this course, please ensure you have the right level of experience to be successful in this training.