

CompTIA A+ Certification

Duration

Online LIVE - 5 Day(s)

Overview

In this course, you will acquire the essential skills and information you will need to install, upgrade, repair, configure, troubleshoot, optimize, and perform preventative maintenance of basic personal computer hardware and operating systems.

Who Should Attend

If you are getting ready for a career as an entry-level information technology (IT) professional or personal computer (PC) service technician, the CompTIA® A+® Certification course is the first step in your preparation.

At Course Completion

Student will Learn the fundamental components and functions of computer technology, networking, and security. - The skills required to identify hardware, peripheral, networking, and security components - The skills required to install, configure, upgrade, and maintain PC workstations, the Windows OS and SOHO networks - How to utilize troubleshooting techniques and tools to effectively and efficiently resolve PC, OS, and network connectivity issues and implement security practices **Outline**

Lesson 1: Hardware Fundamentals

- Computer System Components
- Storage Devices
- Device Connections and Interfaces

Lesson 2: Operating System Fundamentals

- Personal Computer Operating Systems
- Windows Control Panel Utilities
- Command Line Tools
- Windows Security Settings
- Windows Operating System Tools

Lesson 3: Operational Procedures

- Basic Maintenance Tools and Techniques
- Electrical Safety
- Environmental Safety and Materials Handling
- Professionalism and Communication

Lesson 4: Peripheral Components

- Install and Configure Display Devices
- Install and Configure Input Devices
- Install and Configure Expansion Cards
- Install and Configure Multimedia Devices

Lesson 5: Managing System Components

- Motherboards
- CPUs and Cooling Systems
- Select and Install Power Supplies
- RAM Types and Features
- Install and Configure Storage Devices
- Configure the System BIOS

Lesson 6: Installing and Configuring Operating Systems

- Implement Virtualization
- Install Microsoft Windows
- Windows Upgrades
- Windows Preventive Maintenance

Lesson 7: Customized Client Environments

- Standard Clients
- Custom Client Environments

Lesson 8: Networking Technologies

- Physical Network Connections
- TCP/IP
- Network Connectivity
- Ports and Protocols
- Set Up and Configure Windows Networking
- Networking Tools

Lesson 9: Installing, Configuring, and Maintaining SOHO Networks

- Install and Configure SOHO Networks
- Network Security

Lesson 10: Supporting Laptops

- Laptop Hardware and Components
- Install and Configure Laptop Hardware Components

Lesson 11: Mobile Computing

- Mobile Device Technologies
- Configure Mobile Devices

Lesson 12: Supporting Printers



Printer Technologies
Install, Configure, and Maintain Printers

Lesson 13: Security

Security Fundamentals
Security Threats and Vulnerabilities
Security Protection Measures
Workstation Security

Lesson 14: Troubleshooting Hardware Components

Troubleshooting Theory
Troubleshoot Video and Display Devices
Troubleshoot Hard Drives and RAID Arrays
Troubleshoot System Components
Troubleshoot Laptops
Troubleshoot Printers

Lesson 15: Troubleshooting System-Wide Issues

Troubleshoot Operating Systems
Troubleshoot Wired and Wireless Networks
Troubleshoot Common Security Issues