

Hardware and Operating System Fundamentals

Modality: On Demand

Duration: 18 Hours

About this Course:

Hardware and Operating System Fundamentals contains information not limited to Hardware, operating systems, network and security fundamentals, which also discuss about managing components and storage, security threats, vulnerabilities and controls in placed.

Course Objectives:

In this course, you will install, configure, optimize, troubleshoot, repair, upgrade, and perform preventive maintenance on personal computers, digital devices, and operating systems.

- Support operating systems.
- Install and configure PC system unit components and peripheral devices.
- Install, configure, and troubleshoot display and multimedia devices.
- Install, configure, and troubleshoot storage devices.
- Install, configure, and troubleshoot internal system components.
- Install, configure, and maintain operating systems.
- Maintain and troubleshoot Microsoft Windows.
- Explain network infrastructure concepts.
- Configure and troubleshoot network connections.
- Manage users, workstations, and shared resources.
- Implement client virtualization and cloud computing.
- Implement physical security.
- Secure workstations and data.
- Troubleshoot workstation security issues.
- Support and troubleshoot laptops.
- Support and troubleshoot mobile devices.
- Install, configure, and troubleshoot print devices.
- Implement operational procedures.

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:

- 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. You can obtain this level of skills and knowledge by taking the following official CompTIA courses

Course Outline:

Follow is the outline for Course 1: Hardware and Operating System Fundamentals

- Installing and Configuring PC Components
- Installing, Configuring, and Troubleshooting Display and Multimedia Devices
- Installing, Configuring, and Troubleshooting Storage Devices
- Installing, Configuring, and Troubleshooting Internal System Components
- Network Infrastructure Concepts
- Configuring and Troubleshooting Networks
- Implementing Client Virtualization and Cloud Computing
- Supporting and Troubleshooting Laptops
- Supporting and Troubleshooting Mobile Devices
- Installing, Configuring, and Troubleshooting Print Devices
- A+ Core 2 (220-1102)
- Supporting Operating Systems
- Installing, Configuring, and Maintaining Operating Systems
- Maintain and Troubleshoot Microsoft Windows
- Configuring and Troubleshooting Networks
- Managing Users, Workstations, and Shared Resources
- Security Concepts
- Securing Workstations and Data
- Troubleshooting Workstation Security Issues
- Supporting and Troubleshooting Mobile Devices
- Implementing Operational Procedures