CompTIA A+ Certification: A Comprehensive Approach (Exams 220-1001 and 220-1002) (Comptia-A)

Modality: On Demand

Duration: 18 Hours

About this Course:

Do you want to become an A+ expert technician? Then this course is perfect for you! The Official CompTIA® A+® Core 1 and Core 2 (Exams 220-1001 and 220-1002) course is designed to equip the student with in-depth knowledge and skills required for becoming a successful A+ technician. It will also enable the student in preparing for the Comp TIA A+ Core Series Certification exam.

Course Objectives:

The course will enable the student to learn how to configure, install, troubleshoot, optimize, upgrade and repair, as well as perform preventive maintenance on digital devices, personal computers, and operating systems. Those enrolled in this course, will learn how to:

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

Audience:

- The course is intended to be undertaken by those professional who have basic knowledge about computers and skillfully know how to use it, as well as those who aim to get an entry level position as an IT technician. It can also be opted for by those students who wish to have the CompTIA A+ certification, and want to take the CompTIA A+ Core 1 220-1001 Certification Exam and the CompTIA A+ Core 2 220-1002 Certification Exam.

Pre-requisites:

- In order to enroll in this course and eventually clear the exams, you must have basic knowledge about computer and its usage, and you should be able to perform tasks in Microsoft® Windows® environment. In addition, you should also be able to access and browse for information via the Internet and have basic knowledge and understanding of various computing concepts. In order to obtain these basic level skills, you can take the CompTIA® IT Fundamental+ Certification (Exam FC0-U61), which builds the foundation for advanced level courses.

Course Outline:

Lesson 1: Supporting Operating Systems

- **Topic A:** Identify Common Operating Systems
- **Topic B:** Troubleshooting Methodology
- **Topic C:** Use Windows Features and Tools
- **Topic D:** Manage Files in Windows
- **Topic E:** Manage Disks in Windows
- **Topic F:** Manage Devices in Windows

Lesson 2: Installing and Configuring PC Components

- **Topic A:** Use Appropriate Safety Procedures
- **Topic B:** PC Components
- **Topic C:** Common Connection Interfaces
- **Topic D:** Install Peripheral Devices

Lesson 3: Installing, Configuring, and Troubleshooting Display and Multimedia Devices

- **Topic A:** Install and Configure Display Devices
- **Topic B:** Troubleshoot Display Devices
- **Topic C:** Install and Configure Multimedia Devices

Lesson 4: Installing, Configuring, and Troubleshooting Storage Devices

- **Topic A:** Install System Memory
- **Topic B:** Install and Configure Mass Storage Devices
- **Topic C:** Install and Configure Removable Storage
- **Topic D:** Configure RAID
- **Topic E:** Troubleshoot Storage Devices

Lesson 5: Installing, Configuring, and Troubleshooting Internal System Components

- **Topic A:** Install and Upgrade CPUs
- **Topic B:** Configure and Update BIOS/UEFI
- **Topic C:** Install Power Supplies
- **Topic D:** Troubleshoot Internal System Components
- **Topic E:** Configure a Custom PC

Lesson 6: Installing, Configuring, and Maintaining Operating Systems

- **Topic A:** Configure and Use Linux
- **Topic B:** Configure and Use macOS
- **Topic C:** Install and Upgrade Operating Systems
- **Topic D:** Maintain OSs

Lesson 7: Maintaining and Troubleshooting Microsoft Windows

- **Topic A:** Install and Manage Windows Applications
- **Topic B:** Manage Windows Performance
- **Topic C:** Troubleshoot Windows

Lesson 8: Network Infrastructure Concepts

- **Topic A:** Wired Networks
- **Topic B:** Network Hardware Devices
- **Topic C:** Wireless Networks
- **Topic D:** Internet Connection Types
- **Topic E:** Network Configuration Concepts
- **Topic F:** Network Services

Lesson 9: Configuring and Troubleshooting Networks

- **Topic A:** Configure Network Connection Settings
- **Topic B:** Install and Configure SOHO Networks
- **Topic C:** Configure SOHO Network Security
- **Topic D:** Configure Remote Access
- **Topic E:** Troubleshoot Network Connections
- **Topic F:** Install and Configure IoT Devices

Lesson 10: Managing Users, Workstations, and Shared Resources

- **Topic A:** Manage Users
- **Topic B:** Configure Shared Resources
- **Topic C:** Configure Active Directory Accounts and Policies

Lesson 11: Implementing Client Virtualization and Cloud Computing

- **Topic A:** Configure Client-Side Virtualization

- **Topic B:** Cloud Computing Concepts

Lesson 12: Security Concepts

- **Topic A:** Logical Security Concepts
- **Topic B:** Threats and Vulnerabilities
- **Topic C:** Physical Security Measures

Lesson 13: Securing Workstations and Data

- **Topic A:** Implement Security Best Practices
- **Topic B:** Implement Data Protection Policies
- **Topic C:** Protect Data During Incident Response

Lesson 14: Troubleshooting Workstation Security Issues

- **Topic A:** Detect, Remove, and Prevent Malware
- **Topic B:** Troubleshoot Common Workstation Security Issues

Lesson 15: Supporting and Troubleshooting Laptops

- **Topic A:** Use Laptop Features
- **Topic B:** Install and Configure Laptop Hardware
- **Topic C:** Troubleshoot Common Laptop Issues

Lesson 16: Supporting and Troubleshooting Mobile Devices

- **Topic A:** Mobile Device Types
- **Topic B:** Connect and Configure Mobile Device Accessories
- **Topic C:** Configure Mobile Device Network Connectivity
- **Topic D:** Support Mobile Apps
- **Topic E:** Secure Mobile Devices
- **Topic F:** Troubleshoot Mobile Device Issues

Lesson 17: Installing, Configuring, and Troubleshooting Print Devices

- **Topic A:** Maintain Laser Printers
- **Topic B:** Maintain Inkjet Printers
- **Topic C:** Maintain Impact, Thermal, and 3D Printers
- **Topic D:** Install and Configure Printers
- **Topic E:** Troubleshoot Print Device Issues
- **Topic F:** Install and Configure Imaging Devices

Lesson 18: Implementing Operational Procedures

- **Topic A:** Environmental Impacts and Controls
- **Topic B:** Create and Maintain Documentation
- **Topic C:** Use Basic Change Management Best Practices

- **Topic D:** Implement Disaster Prevention and Recovery Methods
- **Topic E:** Basic Scripting Concepts
- **Topic F:** Professionalism and Communication

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