

Course Outline: CompTIA A+ Essentials

Learning Method: Instructor-led Classroom Learning

Duration: 5.00 Day(s)/ 40hrs

Overview:

CompTIA A+ certification validates the latest skills needed by computer support professionals, and confirms a technician's ability to perform tasks such as installation, configuration, diagnosing, preventive maintenance and basic networking.

Who Should Attend: This course is intended for individuals who are employed as a Systems Administrator, Systems Engineer and IT Manager

Outline:

Module 1: Personal Computer Components

- Hardware components
- Computer Connections
- Storage Devices

Module 2: Operating System Fundamentals

- Directory and file management
- System Management
- Boot Processes
- System Monitoring and Management
- System Troubleshooting

Module 3: PC Technician Professional Best Practices

- Electricity
- Understanding Static Electricity
- Power supplies
- Safety with computers
- Tools and software for safety

Module 4: Installing and Configuring Peripheral Components

- Display Devices
- Install and configure I/O Devices
- Adapter Cards
- Multimedia Devices

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Module 5: Installing and Configuring System Components

- Installing Storage Devices
- Power supplies
- Memory
- System BIOS and CMOS
- Understanding the POST process

Module 6: Troubleshooting System Components

- Troubleshooting Storage Devices
- Trouble shooting Power Supplies
- Troubleshooting Memory
- Troubleshooting CPUs and System Boards

Module 7: Installing and Configuring Operating Systems

- Install Microsoft Windows
- Upgrade Microsoft Windows
- Optimizing Windows

Module 8: Maintaining and Troubleshooting Microsoft Windows

- System Utilities
- Troubleshooting windows
- System Recovery for Windows

Module 9: Networking Technologies

- Network communications
- Internet connections
- Network Installation
- Network Addressing and Gateways
- Network Troubleshooting
- Wired and Wireless Network connections
- Understanding Network Architectures

Module 10: Installing and Managing Network Connections

- Creating Network Connections
- Web Browsers
- Troubleshooting Networks

Module 11: Supporting Laptops and Portable Computing Devices

- Notebook Computer Components
- Handheld Devices
- Troubleshooting Portable Computing Devices

Module 12: Supporting Printers and Scanners

- Printer and Scanner technologies
- Printer and Scanner Components
- Installing Printers and Scanners

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- Printer and Scanner processes
- Troubleshooting Printers and Scanners

Module 13: Personal Computer Security Concepts

- Security Basics
- OS and Hardware Security
- Physical Security
- Wireless Security

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