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A+ ESSENTIALS

Course Description: 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.

Course Content

Lesson 1: Personal Computer Components

The following concepts are covered in this lesson:

- Hardware components
- Storage Devices
- Computer Connections

Lesson 2: Operating System Fundamentals

The following concepts are covered in this lesson:

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

Lesson 3: PC Technician Professional Best Practices

The following concepts are covered in this lesson:

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

Lesson 4: Installing and Configuring Peripheral Components

The following concepts are covered in this lesson:

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

Lesson 5: Installing and Configuring System Components

The following concepts are covered in this lesson:

- Installing Storage Devices
- Power supplies
- Memory

System BIOS and CMOS

Understanding the POST process

Lesson 6: Troubleshooting System

Components

The following concepts are covered in this lesson:

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

Lesson 7: Installing and Configuring Operating Systems

The following concepts are covered in this lesson:

- Install Microsoft Windows
- Upgrade Microsoft Windows
- Optimizing Windows

Lesson 8: Maintaining and Troubleshooting Microsoft Windows

The following concepts are covered in this lesson:

- System Utilities
- Troubleshooting Windows
- System Recovery for Windows

Lesson 9: Networking Technologies

The following concepts are covered in this lesson:

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

Lesson 10: Installing and Managing Network Connections

The following concepts are covered in this lesson:

Creating Network Connections
Web Browsers
Troubleshooting Networks

Lesson 11: Supporting Laptops and Portable Computing Devices

The following concepts are covered in this lesson:

Notebook Computer Components
Handheld Devices
Troubleshooting Portable Computing Devices

Lesson 12: Supporting Printers and Scanners

The following concepts are covered in this lesson:

Printer and Scanner technologies
Printer and Scanner Components
Installing Printers and Scanners
Printer and Scanner processes
Troubleshooting Printers and Scanners

Lesson 13: Personal Computer Security Concepts

The following concepts are covered in this lesson:

Security Basics
OS and Hardware Security
Physical Security
Wireless Security