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**Learning Style: On Demand**

**Provider:**

**Difficulty: Beginner**

**Course Duration:**

## Hardware and Operating System



Hardware and Operating System

### Course Outline:

- Lesson 1: Installing Motherboards and Connectors
  - Topic 1A: Explain Cable Types and Connectors
  - Topic 1B: Install and Configure Motherboards

- Topic 1C: Explain Legacy Cable Types
- Lesson 2: Installing System Devices
  - Topic 2A: Install and Configure Power Supplies and Cooling
  - Topic 2B: Select and Install Storage Devices
  - Topic 2C: Install and Configure System Memory
  - Topic 2D: Install and Configure CPUs
- Lesson 3: Troubleshooting PC Hardware
  - Topic 3A: Apply Troubleshooting Methodology
  - Topic 3B: Configure BIOS/UEFI
  - Topic 3C: Troubleshoot Power and Disk Issues
  - Topic 3D: Troubleshoot System and Display Issues
- Lesson 4: Comparing Local Networking Hardware
  - Topic 4A: Compare Network Types
  - Topic 4B: Compare Networking Hardware
  - Topic 4C: Explain Network Cable Types
  - Topic 4D: Compare Wireless Networking Types
- Lesson 5: Configuring Network Addressing and Internet Connections
  - Topic 5A: Compare Internet Connection Types
  - Topic 5B: Use Basic TCP/IP Concepts
  - Topic 5C: Compare Protocols and Ports
  - Topic 5D: Compare Network Configuration Concepts
- Lesson 6: Supporting Network Services
  - Topic 6A: Summarize Services Provided by Networked Hosts
  - Topic 6B: Compare Internet and Embedded Appliances
  - Topic 6C: Troubleshoot Networks
- Lesson 7: Summarizing Virtualization and Cloud Concepts
  - Topic 7A: Summarize Client-side Virtualization
  - Topic 7B: Summarize Cloud Concepts
- Lesson 8: Supporting Mobile Devices
  - Topic 8A: Set Up Mobile Devices and Peripherals
  - Topic 8B: Configure Mobile Device Apps
  - Topic 8C: Install and Configure Laptop Hardware
  - Topic 8D: Troubleshoot Mobile Device Issues
- Lesson 9: Supporting Print Devices
  - Topic 9A: Deploy Printer and Multifunction Devices
  - Topic 9B: Replace Print Device Consumables
  - Topic 9C: Troubleshoot Print Device Issues
- Lesson 10: Configuring Windows
  - Topic 10A: Configure Windows User Settings
  - Topic 10B: Configure Windows System Settings
- Lesson 11: Managing Windows
  - Topic 11A: Use Management Consoles
  - Topic 11B: Use Performance and Troubleshooting Tools
  - Topic 11C: Use Command-line Tools
- Lesson 12: Identifying OS Types and Features
  - Topic 12A: Explain OS Types
  - Topic 12B: Compare Windows Editions
- Lesson 13: Installing and Troubleshooting Operating System
  - Topic 13A: Perform OS Installations and Upgrades
  - Topic 13B: Install and Configure Applications

- Topic 13C: Troubleshoot Windows OS Problems
- Lesson 14: Managing Windows Networking
  - Topic 14A: Configuring Windows Networking
  - Topic 14B: Troubleshoot Windows Networking
  - Topic 14C: Configure Windows Security Settings
  - Topic 14D: Manage Windows Shares
- Lesson 15: Managing Linux and macOS
  - Topic 15A: Identify Features of Linux
  - Topic 15B: Identify Features of macOS
- Lesson 16: Configuring SOHO Network Security
  - Topic 16A: Explain Attacks, Threats, and Vulnerabilities
  - Topic 16B: Compare Wireless Security Protocols
  - Topic 16C: Configure SOHO Router Security
  - Topic 16D: Summarize Security Measures
- Lesson 17: Managing Security Settings
  - Topic 17A: Configure Workstation Security
  - Topic 17B: Configure Browser Security
  - Topic 17C: Troubleshoot Workstation Security Issues
- Lesson 18: Supporting Mobile Software.
  - Topic 18A: Configure Mobile OS Security
  - Topic 18B: Troubleshoot Mobile OS and App Software
  - Topic 18C: Troubleshoot Mobile OS and App Security
- Lesson 19: Using Support and Scripting Tools
  - Topic 19A: Use Remote Access Technologies
  - Topic 19B: Implement Backup and Recovery
  - Topic 19C: Explain Data Handling Best Practices
  - Topic 19D: Identify Basics of Scripting
- Lesson 20: Implementing Operational Procedures
  - Topic 20A: Implement Best Practice Documentation
  - Topic 20B: Use Proper Communication Techniques
  - Topic 20C: Use Common Safety and Environmental Procedures