

Hardware (A+)

Duration - 2 Month



✧ Hardware Fundamentals

- Topic A: Personal Computer Components
- Topic B: Storage Devices
- Topic C: Mobile Digital Devices
- Topic D: Connection Interfaces

✧ Managing System Components

- Topic A: Identify Motherboard Components and Features
- Topic B: Install and Configure CPUs and Cooling Systems
- Topic C: Install Power Supplies
- Topic D: Troubleshoot System Components

✧ Managing Data Storage

- Topic A: Identify RAM Types and Features
- Topic B: Troubleshoot RAM Issues
- Topic C: Install and Configure Storage Devices
- Topic D: Configure the System Firmware
- Topic E: Troubleshoot Hard Drives and RAID Arrays

✧ Supporting Display Devices

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

✧ Installing and Configuring Peripheral Components

- Topic A: Install and Configure Input Devices
- Topic B: Install and Configure Output Devices
- Topic C: Install and Configure Input/Output Devices

- Topic D: Install and Configure Expansion Cards

✧ Customized Client Environments

- Topic A: Types of Common Business Clients
- Topic B: Custom Client Environments

✧ Supporting Printers and Multifunction Devices

- Topic A: Printer and Multifunction Technologies
- Topic B: Install and Configure Printers
- Topic C: Maintain Printers
- Topic D: Troubleshoot Printers

✧ Networking Technologies

- Topic A: TCP/IP Properties and Characteristics
- Topic B: TCP/IP
- Topic C: Internet Connections
- Topic D: Ports and Protocols
- Topic E: Networking Tools

✧ Installing and Configuring Networking Capabilities

- Topic A: Configure Basic Windows Networking
- Topic B: Configure Network Perimeters
- Topic C: Using Windows Networking Features

- Topic D: Install and Configure SOHO Networks

✧ **Supporting Mobile Digital Devices**

- Topic A: Install and Configure Exterior Laptop Components
- Topic B: Install and Configure Interior Laptop Components
- Topic C: Other Mobile Devices
- Topic D: Mobile Device Accessories and Ports
- Topic E: Mobile Device Connectivity
- Topic F: Mobile Device Synchronization
- Topic G: Troubleshoot Mobile Device Hardware

✧ **Operating System Fundamentals**

- Topic A: PC and Mobile Operating Systems
- Topic B: PC Operating System Tools and Utilities

✧ **Installing and Configuring Microsoft Windows**

- Topic A: Implement Client-Side Virtualization
- Topic B: Install Microsoft Windows
- Topic C: Use Microsoft Windows
- Topic D: Configure Microsoft Windows
- Topic E: Upgrade Microsoft Windows

✧ **Optimizing and Maintaining Microsoft Windows**

- Topic A: Optimize Microsoft Windows
- Topic B: Back Up and Restore System Data
- Topic C: Perform Disk Maintenance
- Topic D: Update Software

✧ **Working With Other Operating Systems**

- Topic A: The OS X Operating System
- Topic B: The Linux Operating System

✧ **Networking and Security Fundamentals**

- Topic A: Network Types
- Topic B: Network Components
- Topic C: Common Network Services
- Topic D: Cloud Concepts
- Topic E: Security Fundamentals

✧ **Security Threats, Vulnerabilities, and Controls**

- Topic A: Common Security Threats and Vulnerabilities
- Topic B: General Security Controls
- Topic C: Mobile Security Controls
- Topic D: Data Destruction and Disposal Methods

✧ **Implementing Security Controls**

- Topic A: Secure Operating Systems
- Topic B: Secure Workstations
- Topic C: Secure SOHO Networks
- Topic D: Secure Mobile Devices

✧ **Troubleshooting System-Wide Issues**

- Topic A: Troubleshoot PC Operating Systems
- Topic B: Troubleshoot Mobile Device Operating Systems and Applications

- Topic C: Troubleshoot Wired and Wireless Networks
- Topic D: Troubleshoot Common Security Issues

✧ **Safety and Operational Procedures**

- Topic A: Basic Maintenance Tools and Techniques
- Topic B: Personal and Electrical Safety
- Topic C: Environmental Safety and Materials Handling
- Topic D: Professionalism and Communication
- Topic E: Organizational Policies and Procedures
- Topic F: Troubleshooting Theory

