1001-02: CompTIA A+ Certification, Part 9 of 13: SOHO, Mobile and Printers

Meet the expert: A lifelong fascination with technology led a varied career in technology. I have over 20 years of experience supporting end users, and small businesses. On top of that, I have been an Information Technology instructor for Edmonds Community College, where I instructed on CompTIA’s A+, and Network+ material. During that time I created curriculum for not only those courses, but also for CompTIA’s Security+ certification. I currently hold the following certifications: A+, Network+, Server+, Cloud+, and Project+.

Chuck Nailen has been providing classroom training for more than 16 years. He does training for in department-supported CompTIA curriculums, Microsoft curriculums, and Department of State (DoS) proprietary platforms in support of SAIT and DoS programs. He holds many certifications including National Career Readiness Certificate-Gold Level, MCSA, MCT, MCITP, MCTS, and others.

Prerequisites: This course assumes the user has little to experience with computer hardware or software.

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Course description: In this course for the CompTIA A+ 1001-1002 exam, we'll start out by talking about SOHO networks. SOHO is an acronym for Small Office Home Office. We'll cover many of the considerations you must consider when setting up a SOHO network. Next we'll cover laptops including parts, performance, and other factors to keep in mind. Then we'll move on to mobile devices, including specific types, configuration and other items of interest. Then we'll finish off the course with Printers, any network will need to have a print. We'll cover MFD, Multi Function Device printers, how printers work including laser to dot matrix.

Course outline:

Install and Configure
- Introduction
- SOHO Networks
- Firewalls and SOHO Networks
- Software Firewalls
- DMZs
- NAT Implementations
- WPS
- Basic QoS
- WAPs
- SSID
- Encryption
- Wireless Encryption Types
- Router Settings and Configurations
- Summary

Security
- Introduction
- Common SOHO Security Methods
- Wireless Security
- SOHO Wireless Security Methods
- Wireless Client Configuration Options
- Summary

Laptops
- Introduction
- Supporting Laptops
- Laptops
- Laptops (Continued)
- Laptop Hardware Components
- Types of Laptop Displays
- Laptop Display Components
- Internal Laptop Components
- Summary

Expansion and Support
- Introduction
- Laptop Expansion Options
- Laptop Expansions Demo
- Special Function Keys
- Special Function Demo
- Laptop Docking Solutions
- Laptop Locks
- Laptop Lock Demo
- Laptop Power Supplies and Batteries
- Auto-Switching and Fixed Input Power Supplies
- Laptop Cooling Considerations
- Laptop Cooling Demo
- General Laptop Support Guidelines
- Summary

Technologies
- Introduction
- What is Mobile Technology?
- Mobile Operating Systems
- Smartphones
- Tablet PCs
- Tablet vs. Laptops
- Mobile Operating System Features
- Summary

Configure
- Introduction
- Mobile Security
- Mobile Device Security Techniques
- Network Configuration Settings
- Bluetooth Configuration Methods
- The Bluetooth Pairing Process
- Data Synchronization
- Synchronization Requirements
- Email Configuration Methods
- Email Server and Configuration
- Summary

Printer Types
- Introduction
- Printers
- An MFD
- Laser Printers
- The Laser Print Process
- Inkjet Printers
- The Inkjet Print Process
- Duplexing
- Thermal Printers
- Thermal Print Processes
- Impact Printers
- The Impact Print Process
- Summary

Install, Configure, and Maintain Printers
- Introduction
- Technical Printer Components
- Printer Supplies and Media
- Printer Driver Types
- Printer Driver Compatibility
- Local & Network-Based Printers
- Print Device Sharing
- Printer Configuration Options
- Printer Maintenance
- Summary