1001-02: CompTIA A+ Certification, Part 4 of 13: Windows and Environments

page 1

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 will take a look at what is Virtualization, Types of Virtualization, and Windows Client Virtualization Solutions. Next we'll look at the Windows System Requirements, Hardware Compatibility and Boot Methods. Moving on we will look at Workgroups, Homegroups, Domains, Customizing System Options, Creating a Local User Account During Installation, Updates, Service Packs and Patches. Then we'll cover Virtual Memory, The Virtual Memory Process, Pagefile Optimization, The Windows Boot Process, Windows Startup Settings and the Boot Configuration Data Editor, Data Backup and Restoration, Maintenance Tools. Next you will be introduced to two different kinds of computer clients, the first one being a standard client, and the second being a Custom Client. You will learn about what hardware is needed for each type of client.

Course outline:

Implement Virtualization
- Introduction
- Install & Configure OS
- What Is Virutalization?
- Types of Virtualization
- Virtual Desktop Infrastructure
- Virtualization Requirements
- Windows Client Virtualization
- Summary

Install Microsoft Windows
- Introduction
- Windows System Requirements
- Hardware Compatibility
- Introduction to Windows 10
- Windows 10 Installation Methods
- Supported Network Types
- Important Features
- Boot Methods
- Imaging
- Installation Types
- Third Party Drivers
- Partitioning
- Partitioning Types
- Volumes
- Partition & File System Types
- Demo: Install Windows
- Demo: Windows Setup
- Summary

Work Group
- Introduction
- Workgroups
- Homegroups
- Domains
- Customizing System Options
- Updates
- Factory Recovery Partition
- Microsoft Product Activation
- In-Place Upgrades
- Supported Upgrade Paths
- Compatibility Tools
- Summary

Optimization & Maintenance
- Introduction
- Virtual Memory
- Virtual Memory Process
- The Windows Boot Process
- Data Backup & Restoration
- Maintenance Tools
- Scheduling Tasks
- Patch Management
- Managing Updates
- Demo: Maintenance Tools
- Demo: Scheduling
- Summary

Standard Client
- Introduction
- Customized Client Environments
- What Is a Standard Client?
- Client Requirements
- Virtualization Workstation
- VirtualizationWorkstationReqs
- Summary

Custom Client
- Introduction
- Media Design Workstations
- Media Design Requirements
- Audio/VideoEditingWorkstations
- A/V Editing Hardware Reqs
- Gaming PCs
- Gaming PC Requirements
- Home Theater PC
- Home Theater PC Requirements
- Home Server PC
- Home Server Requirements
- Summary