220-1101-02: CompTIA A+ Certification: Part 6 of 9: Operating System Types

Meet the expert: Patrick Loner has certifications for MCSA, MCSE, MCITP, A+, Network+, Security+, and more. He has been working as a Microsoft Certified Trainer, network administrator, and network consultant for over ten years. He has over a decade of experience working with and teaching about Windows networks with client and server operating systems. He has guided many students toward Microsoft and CompTIA certifications. Most recently, he has worked as a freelance trainer and network consultant specializing in Windows Server 2008 and Microsoft Exchange 2007 and Exchange 2010 implementations, design, and upgrades. Patrick continues to branch out now working with and training on Windows Server 2012, Windows 8, Exchange 2013, and System Center Configuration Manager 2012.

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+ 1101-1102 exam, we will cover a lot of material on Windows 10 and how to administer it, as well as the Mac and Linux Operating systems, best practices and OS Security.

Course outline:

Introduction to Windows 10
• Introduction
• Windows 10 Versions
• Windows 10 Builds
• Feature Differences
• Summary

Using Control Panel and Settings
• Introduction
• Management Overview
• Introducing Control Panel
• User Control Panel and PC Settings
• Demo: Control Panel
• Settings App
• Demo: Settings
• Summary

Graphical Admin Tools
• Introduction
• Using Graphical Administrative Tools
• Computer Management
• Demo: Computer Management
• Additional Tools
• Demo: Additional Tools
• Event Viewer
• Task Manager
• Demo: Event Viewer
• Disk Management
• Demo: Using Disk Management
• Registry
• Registry Keys

• Demo: Regedit
• Summary

Command Line Admin Tools
• Introduction
• Introduction to CLI
• Navigation Using CLI
• Additional CLI Tools
• Summary

Windows Networking
• Introduction
• Windows Networking
• TCP/IP Configuration
• Alternate Configuration
• Network Types
• SOHO Networks
• Joining Domains
• Understanding Workgroups
• Domains
• Azure Ad
• Remote Desktop
• Windows Defender Firewall
• Demo: Firewall
• Establish Network Connections
• Summary

OS Security
• Introduction
• Operating System Security
• Workgroup Authentication
• Domain Authentication
• Creating Local Accounts

• Windows 10 Authentication Options
• Utilizing Groups
• Accessing Network Shares
• Understading Permissiosn
• NTFS Permissions
• Shared Folder Permissions
• Permission Rules
• Demo: Managing Files ACcess
• Encrypting File System
• Encryption Process
• Bitlocker
• Demo: Encryption
• Demo: Bitlocker
• Bitlocker to Go
• Demo: Configuring UAC
• User Control
• Summary

Mac and Linux Overview
• Introduction
• Mac and Linx Overview
• Mac OS X
• Linux
• Summary

Mac and Linux Features and Tools
• Introduction
• Multiple Desktops
• Keychain
• Spotlight
• iCloud

• Gestures and Finder
• Remote Disc
• Dock
• Backups
• TAR
• Time Machine
• Disk Maintenance
• Shell and Terminal
• Screen Sharing
• Force Quit
• Mac System Preferences
• Installing Applications
• Summary

Best Practices using Mac and Linux OS
• Introduction
• Alternative Operating Systems
• RSYNC
• Scheduled Disk Maintenance
• Linux Updates
• Driver and Firmware Updates
• Antivirus Updates
• Summary

Basic Command Line Linux
• Introduction
• Overview of Linx CLI
• LS
• Grep
• CD
• Additional Commands

• Summary