

COURSE OUTLINE AND SCHEDULE:

ASSIGNMENTS ARE DUE EACH MONDAY

WEDNESDAY JANUARY 22

1.0 Computing Overview

- **1.1 Course Introduction**
 - 1.1.1 PC Pro and A+ Certification (9:03)
 - **1.2 Using the Simulator**
 - 1.2.1 Using the Simulator (21:57)
 - 1.2.2 Explore the Lab Interface
 - 1.2.3 Working with Internal Components (20:55)
 - 1.2.4 Connect Internal Components
 - **1.3 Hardware Basics**
 - 1.3.1 Computing Basics (17:04)
 - 1.3.2 Computing Facts
 - 1.3.3 External Components (8:14)
 - 1.3.4 Ports and Connectors
 - 1.3.5 Set Up a Computer
 - 1.3.6 Internal Components (4:20)
 - 1.3.7 Exam Questions - Section 1.3
 - **1.4 Operating System Basics**
 - 1.4.1 Operating Systems (10:28)
 - 1.4.2 Operating System Facts
 - 1.4.3 Using the Windows Interface (16:52)
 - 1.4.4 Windows Interface Facts
 - 1.4.5 Exam Questions - Section 1.4
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2. 2.0 PC Technician (93 MIN TOTAL)

- **2.1 Protection and Safety 18 MIN**
 - 2.1.1 Safety (5:59)
 - 2.1.2 Safety Measures
 - 2.1.3 ESD (7:35)
 - 2.1.4 Protecting Against ESD (4:54)
 - 2.1.5 ESD Facts
 - 2.1.6 Environmental Concerns (7:12)
 - 2.1.7 Environmental Facts
 - 2.1.8 Exam Questions - Section 2.1
 - **2.2 Professionalism 29 MIN**
 - 2.2.1 Professionalism (3:00)
 - 2.2.2 Professionalism Facts
 - 2.2.3 Incident Management (7:17)
 - 2.2.4 Basic Forensic Procedures (18:31)
 - 2.2.5 Incident Response Facts
 - 2.2.6 Exam Questions - Section 2.2
 - **2.3 PC Tools 3 MIN**
 - 2.3.1 PC Toolkit (3:17)
 - 2.3.2 Tool Facts
 - 2.3.3 Exam Questions - Section 2.3
 - **2.4 PC Maintenance 34 MIN**
 - 2.4.1 PC Maintenance (4:05)
 - 2.4.2 PC Maintenance Facts
 - 2.4.3 Protecting Power (15:40)
 - 2.4.4 Configuring UPS Settings (14:27)
 - 2.4.5 Power Protection Facts
 - 2.4.6 Install a UPS
 - 2.4.7 Exam Questions - Section 2.4
 - **2.5 Troubleshooting Overview 8 MIN**
 - 2.5.1 Troubleshooting Process (7:35)
 - 2.5.2 Troubleshooting Process Facts
 - 2.5.3 Exam Questions - Section 2.5
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3. 3.0 System Components

- **3.1 Cases and Form Factors 10 MIN**
 - 3.1.1 Cases and Form Factors (10:04)
 - 3.1.2 System Case Facts
 - 3.1.3 Exam Questions - Section 3.1
 - **3.2 Power Supplies 36 MIN**
 - 3.2.1 Power Supplies (10:48)
 - 3.2.2 Power Supply Facts
 - 3.2.3 Identifying Power Supply Components (8:49)
 - 3.2.4 Changing the Power Supply (16:03)
 - 3.2.5 Replace a Power Supply
 - 3.2.6 Exam Questions - Section 3.2
 - **3.3 Motherboards and Buses 21 MIN**
 - 3.3.1 Motherboard Components (6:27)
 - 3.3.2 Motherboard Facts
 - 3.3.3 Installing a Motherboard (14:40)
 - 3.3.4 Motherboard Installation Facts
 - 3.3.5 Choose and Install a Motherboard
 - 3.3.6 Exam Questions - Section 3.3
 - **3.4 Processors 13 MIN**
 - 3.4.1 Processor Concepts (8:08)
 - 3.4.2 CPU Facts
 - 3.4.3 CPU Performance Facts
 - 3.4.4 CPU Socket Facts
 - 3.4.5 Installing a Processor (5:02)
 - 3.4.6 CPU Installation Facts
 - 3.4.7 Select and Install a Processor 1
 - 3.4.8 Select and Install a Processor 2
 - 3.4.9 Exam Questions - Section 3.4
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- **3.5 Memory 75 MIN**
 - 3.5.1 Memory (7:09)
 - 3.5.2 Memory Types (13:09)
 - 3.5.3 RAM Facts
 - 3.5.4 Memory Factors (13:12)
 - 3.5.5 Memory Speed (17:50)
 - 3.5.6 Memory Characteristics
 - 3.5.7 Memory Forms (8:20)
 - 3.5.8 Memory Form Comparison
 - 3.5.9 Selecting the Correct Memory Module (10:26)
 - 3.5.10 Installing Memory (5:01)
 - 3.5.11 Memory Installation Facts
 - 3.5.12 Select Memory by Sight
 - 3.5.13 Install Triple Channel Memory
 - 3.5.14 Exam Questions - Section 3.5
 - **3.6 BIOS 68 MIN**
 - 3.6.1 BIOS and CMOS (13:13)
 - 3.6.2 PC Boot Process (4:55)
 - 3.6.3 BIOS and CMOS Facts
 - 3.6.4 Editing the BIOS 1 (17:05)
 - 3.6.5 Editing the BIOS 2 (22:16)
 - 3.6.6 Flashing the BIOS (10:22)
 - 3.6.7 Find BIOS Settings
 - 3.6.8 Clear CMOS Settings
 - 3.6.9 Exam Questions - Section 3.6
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- **3.7 Expansion Cards 9 MIN**
 - 3.7.1 Expansion Buses and Slots (3:36)
 - 3.7.2 Expansion Bus Types
 - 3.7.3 Installing an Expansion Card (5:29)
 - 3.7.4 Install Expansion Cards
 - 3.7.5 Exam Questions - Section 3.7
- **3.8 Video 20 MIN**
 - 3.8.1 Video Cards (3:31)
 - 3.8.2 Video Card Facts
 - 3.8.3 Installing a Video Card (6:41)
 - 3.8.4 Video Card Installation Facts
 - 3.8.5 Upgrade a Video Card
 - 3.8.6 Exam Questions - Section 3.8
- **3.9 Audio 33 MIN**
 - 3.9.1 Digital Audio (9:04)
 - 3.9.2 Sound Cards (7:22)
 - 3.9.3 Sound Card Facts
 - 3.9.4 Managing Audio Devices (15:50)
 - 3.9.5 Sound Card Installation Facts
 - 3.9.6 Sound Card Connectors
 - 3.9.7 Select and Install a Sound Card
 - 3.9.8 Exam Questions - Section 3.9
- **3.10 Cooling 12 MIN**
 - 3.10.1 System Cooling (11:30)
 - 3.10.2 System Cooling Facts
 - 3.10.3 Exam Questions - Section 3.10

4. 4.0 Peripheral Devices

- **4.1 Peripheral Devices 8 MIN**
 - 4.1.1 Peripheral Devices (4:11)
 - 4.1.2 Peripheral Device Facts
 - 4.1.3 Input Devices (3:32)
 - 4.1.4 Input Device Facts
 - 4.1.5 Connect a KVM Switch
 - 4.1.6 Exam Questions - Section 4.1
- **4.2 Serial, Parallel, and PS/2 10 MIN**
 - 4.2.1 Serial, Parallel, and PS/2 (9:19)
 - 4.2.2 Serial, Parallel, and PS/2 Facts
 - 4.2.3 Serial, Parallel, and PS/2 Connections
 - 4.2.4 Connect Devices
 - 4.2.5 Exam Questions - Section 4.2
- **4.3 USB 18 MIN**
 - 4.3.1 Universal Serial Bus (USB) (15:56)
 - 4.3.2 USB Components (2:00)
 - 4.3.3 USB Facts
 - 4.3.4 Install USB Devices
 - 4.3.5 Install USB Adapter
 - 4.3.6 Exam Questions - Section 4.3
- **4.4 IEEE 1394 (Firewire) 3 MIN**

- 4.4.1 Firewire (3:31)
 - 4.4.2 Firewire Facts
 - 4.4.3 Connect Firewire Devices
 - 4.4.4 Exam Questions - Section 4.4
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- **4.5 Display Devices 60 MIN**
 - 4.5.1 CRT Monitors (15:04)
 - 4.5.2 CRT Monitor Facts
 - 4.5.3 LCD Monitors (6:27)
 - 4.5.4 LCD Monitor Facts
 - 4.5.5 LED and Plasma Monitors (14:54)
 - 4.5.6 LED and Plasma Monitor Facts
 - 4.5.7 Video Interfaces (7:24)
 - 4.5.8 Video Interface Facts
 - 4.5.9 Connect Monitors
 - 4.5.10 Install a VGA Monitor
 - 4.5.11 Choose and Configure a Monitor
 - 4.5.12 Install an HDTV Monitor
 - 4.5.13 Configuring Display Settings (8:46)
 - 4.5.14 Configure Dual Monitors
 - 4.5.15 Video Configuration Facts
 - 4.5.16 Optimizing Video (8:01)
 - 4.5.17 Optimize Video Settings
 - 4.5.18 Exam Questions - Section 4.5
 - **4.6 Device Installation 39 MIN**
 - 4.6.1 Device Installation (5:47)
 - 4.6.2 Installing Devices (15:06)
 - 4.6.3 Managing Devices (17:52)
 - 4.6.4 Hardware Device Facts
 - 4.6.5 Device Installation Facts
 - 4.6.6 Manage Devices
 - 4.6.7 Exam Questions - Section 4.6
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5. 5.0 Storage

- **5.1 Storage Devices 32 MIN**
 - 5.1.1 Storage Devices (23:47)
 - 5.1.2 Storage Device Facts
 - 5.1.3 Storage Device Interfaces (7:31)
 - 5.1.4 Storage Device Interface Facts
 - 5.1.5 Exam Questions - Section 5.1
 - **5.2 Floppy Drives 11 MIN**
 - 5.2.1 Installing a Floppy Drive (10:52)
 - 5.2.2 Floppy Installation Facts
 - 5.2.3 Install a Floppy Drive
 - 5.2.4 Exam Questions - Section 5.2
 - **5.3 Parallel ATA (IDE) 24 MIN**
 - 5.3.1 ATA/IDE Devices (13:55)
 - 5.3.2 Installing an ATA Device (10:05)
 - 5.3.3 ATA Installation Facts
 - 5.3.4 Install PATA Devices
 - 5.3.5 Exam Questions - Section 5.3
 - **5.4 Serial ATA 15 MIN**
 - 5.4.1 Serial ATA (9:31)
 - 5.4.2 Installing a Serial ATA Device (5:33)
 - 5.4.3 Serial ATA Installation Facts
 - 5.4.4 Install SATA Devices
 - 5.4.5 Exam Questions - Section 5.4
 - **5.5 SCSI 40 MIN**
 - 5.5.1 SCSI (17:39)
 - 5.5.2 SCSI Standards (13:23)
 - 5.5.3 SCSI Standards Facts
 - 5.5.4 Installing a SCSI Adapter and Device (9:15)
 - 5.5.5 Exam Questions - Section 5.5
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- **5.6 Optical Media 38 MIN**
 - 5.6.1 CD Drives (11:39)
 - 5.6.2 CD Format Facts
 - 5.6.3 DVD Drives (14:21)
 - 5.6.4 Blu-ray (6:48)
 - 5.6.5 DVD and Blu-ray Facts
 - 5.6.6 Choosing an Optical Drive (4:03)
 - 5.6.7 Choosing an Optical Drive Facts
 - 5.6.8 Exam Questions - Section 5.6
 - **5.7 File System 77 MIN**
 - 5.7.1 File System (5:11)
 - 5.7.2 Viewing File System Components (12:49)
 - 5.7.3 File System Facts
 - 5.7.4 Partitions and Disks (22:12)
 - 5.7.5 Partition and Disk Facts
 - 5.7.6 Creating Volumes (16:40)
 - 5.7.7 Create Volumes
 - 5.7.8 Formatting and Converting (17:28)
 - 5.7.9 Format Drives
 - 5.7.10 Disk Status (3:01)
 - 5.7.11 Disk Status Facts
 - 5.7.12 Exam Questions - Section 5.7
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- **5.8 RAID 30 MIN**
 - 5.8.1 RAID (13:02)
 - 5.8.2 RAID Facts
 - 5.8.3 Configuring RAID Arrays (16:41)
 - 5.8.4 RAID Configuration Facts
 - 5.8.5 Create RAID Arrays
 - 5.8.6 Implement a RAID Solution
 - 5.8.7 Exam Questions - Section 5.8
 - **5.9 Adding Storage 27 MIN**
 - 5.9.1 Adding Storage (10:45)
 - 5.9.2 Creating Mount Points and Extending Volumes (15:32)
 - 5.9.3 Adding Storage Facts
 - 5.9.4 Add Space to Existing Volumes
 - 5.9.5 Exam Questions - Section 5.9
 - **5.10 Disk Optimization 34 MIN**
 - 5.10.1 Storage Optimization (19:59)
 - 5.10.2 Optimizing Disks (13:26)
 - 5.10.3 Disk Optimization Facts
 - 5.10.4 Perform Disk Maintenance
 - 5.10.5 Exam Questions - Section 5.10
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6. 6.0 Networking

- **6.1 Networking Overview 33 MIN**
 - 6.1.1 Networking (9:17)
 - 6.1.2 Network Types (9:34)
 - 6.1.3 Networking Facts
 - 6.1.4 Network Topologies (13:27)
 - 6.1.5 Topology Facts
 - 6.1.6 Exam Questions - Section 6.1
 - **6.2 Network Hardware 45 MIN**
 - 6.2.1 Network Devices 1 (16:18)
 - 6.2.2 Network Devices 2 (15:46)
 - 6.2.3 Networking Device Facts
 - 6.2.4 Network Adapters (12:13)
 - 6.2.5 Network Adapter Facts
 - 6.2.6 Select and Install a Network Adapter
 - 6.2.7 Exam Questions - Section 6.2
 - **6.3 Networking Media 20 MIN**
 - 6.3.1 Cable Media (19:59)
 - 6.3.2 Coaxial Cable Facts
 - 6.3.3 Twisted Pair Facts
 - 6.3.4 Twisted Pair Connector Facts
 - 6.3.5 Fiber Optic Facts
 - 6.3.6 Exam Questions - Section 6.3
 - **6.4 Ethernet 8 MIN**
 - 6.4.1 Ethernet (7:26)
 - 6.4.2 Ethernet Facts
 - 6.4.3 Ethernet Standards
 - 6.4.4 Exam Questions - Section 6.4
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- **6.5 Network Addressing 26 MIN**
 - 6.5.1 Device Addressing (11:42)
 - 6.5.2 IP Addressing (14:35)
 - 6.5.3 Addressing Facts
 - 6.5.4 Exam Questions - Section 6.5
 - **6.6 IP Configuration 39 MIN**
 - 6.6.1 IP Configuration (13:36)
 - 6.6.2 TCP/IP Configuration Methods (7:20)
 - 6.6.3 Configuring TCP/IP Properties (17:36)
 - 6.6.4 IP Configuration Facts
 - 6.6.5 Configure TCP/IP Settings
 - 6.6.6 Configure Alternate TCP/IP Settings
 - 6.6.7 Exam Questions - Section 6.6
 - **6.7 IP version 6 8 MIN**
 - 6.7.1 IP version 6 (8:13)
 - 6.7.2 IPv6 Facts
 - 6.7.3 Exam Questions - Section 6.7
 - **6.8 Protocols 5 MIN**
 - 6.8.1 Network Protocols (5:03)
 - 6.8.2 Protocol Facts
 - 6.8.3 Exam Questions - Section 6.8
 - **6.9 802.11 Wireless 34 MIN**
 - 6.9.1 Wireless Networking (15:46)
 - 6.9.2 Wireless Networking Facts
 - 6.9.3 Wireless Security (10:23)
 - 6.9.4 Wireless Security Facts
 - 6.9.5 Configuring a Wireless Connection (6:47)
 - 6.9.6 Connect to a Wireless Network
 - 6.9.7 Configure a Wireless Profile
 - 6.9.8 Exam Questions - Section 6.9
 - **6.10 Infrared and Bluetooth 14 MIN**
 - 6.10.1 Infrared and Bluetooth (4:50)
 - 6.10.2 Configuring Bluetooth Connections (8:21)
 - 6.10.3 Infrared and Bluetooth Facts
 - 6.10.4 Exam Questions - Section 6.10
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- **6.11 Internet Connectivity 42 MIN**
 - 6.11.1 Internet Services (21:14)
 - 6.11.2 Internet Connections (13:20)
 - 6.11.3 Internet Connection Facts
 - 6.11.4 Configure a Cable Internet Connection
 - 6.11.5 Configure a DSL Internet Connection
 - 6.11.6 Creating a Dial-up Internet Connection (6:48)
 - 6.11.7 Configure a Dialup Internet Connection
 - 6.11.8 Exam Questions - Section 6.11
 - **6.12 SOHO Configuration 36 MIN**
 - 6.12.1 SOHO Configuration (13:36)
 - 6.12.2 SOHO Configuration Facts
 - 6.12.3 Configuring a SOHO Router (8:52)
 - 6.12.4 Access Point Configuration Facts
 - 6.12.5 Configuring a Wireless Access Point (13:42)
 - 6.12.6 Configure a Wireless Infrastructure
 - 6.12.7 Exam Questions - Section 6.12
 - **6.13 Network Utilities 28 MIN**
 - 6.13.1 Network Utilities (6:06)
 - 6.13.2 Using Ipconfig (5:36)
 - 6.13.3 Find Configuration Information 1
 - 6.13.4 Find Configuration Information 2
 - 6.13.5 Find Configuration Information 3
 - 6.13.6 Using Ping and Tracert (10:54)
 - 6.13.7 Using Nslookup (4:45)
 - 6.13.8 TCP/IP Utilities
 - 6.13.9 Exam Questions - Section 6.13
 - **6.14 HomeGroup 9 MIN**
 - 6.14.1 Implementing HomeGroups (8:31)
 - 6.14.2 HomeGroup Facts
 - 6.14.3 Exam Questions - Section 6.14
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7. 7.0 Printing

- **7.1 Printers 40 MIN**
 - 7.1.1 Printer Types (15:47)
 - 7.1.2 Printer Type Facts
 - 7.1.3 Laser Printers (4:52)
 - 7.1.4 Laser Printing Process (10:08)
 - 7.1.5 Laser Printing Facts
 - 7.1.6 Printer Interfaces (8:36)
 - 7.1.7 Printer Connection Facts
 - 7.1.8 Printer Characteristics Facts
 - 7.1.9 Choose a Printer
 - 7.1.10 Exam Questions - Section 7.1
 - **7.2 Printer Configuration 31 MIN**
 - 7.2.1 Printing Configuration (11:55)
 - 7.2.2 Installing a Local Printer (19:20)
 - 7.2.3 Printer Configuration Facts
 - 7.2.4 Select and Install a Printer
 - 7.2.5 Exam Questions - Section 7.2
 - **7.3 Network Printing 27 MIN**
 - 7.3.1 Network Printing (8:18)
 - 7.3.2 Installing a Network Printer (18:32)
 - 7.3.3 Network Printing Facts
 - 7.3.4 Configure Network Printing
 - 7.3.5 Exam Questions - Section 7.3
 - **7.4 Printing Management 19 MIN**
 - 7.4.1 Configuring Printer Properties (11:21)
 - 7.4.2 Managing Print Jobs (8:29)
 - 7.4.3 Printing Management Facts+58
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 - 7.4.4 Configure Printer Properties
 - 7.4.5 Manage Printing
 - 7.4.6 Exam Questions - Section 7.4
 - **7.5 Printer Maintenance 12 MIN**
 - 7.5.1 Maintaining Laser Printers (12:09)
 - 7.5.2 Printer Preventative Maintenance Facts
 - 7.5.3 Exam Questions - Section 7.5
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8. 8.0 Mobile Devices

- **8.1 Notebook Computers 31 MIN**
 - 8.1.1 Notebook Computers (19:31)
 - 8.1.2 Notebook Connectors (10:58)
 - 8.1.3 Notebook Facts
 - 8.1.4 Expansion Card Facts
 - 8.1.5 Notebook Power Facts
 - 8.1.6 Exam Questions - Section 8.1
 - **8.2 Notebook Components 39 MIN**
 - 8.2.1 Changing a Notebook Hard Disk (2:43)
 - 8.2.2 Adding Notebook Memory (4:48)
 - 8.2.3 Changing a Notebook Keyboard (4:30)
 - 8.2.4 Replacing LCD Components (17:49)
 - 8.2.5 Replacing Internal Notebook Components (9:04)
 - 8.2.6 Notebook Upgrade and Repair Facts
 - 8.2.7 Exam Questions - Section 8.2
 - **8.3 Notebook Power Management 20 MIN**
 - 8.3.1 Portable Power (9:35)
 - 8.3.2 Configuring Power Options (10:47)
 - 8.3.3 Power Management Facts
 - 8.3.4 Edit Power Options
 - 8.3.5 Create a Power Plan
 - 8.3.6 Exam Questions - Section 8.3
 - **8.4 Mobile Devices 58 MIN**
 - 8.4.1 Mobile Device Overview (14:19)
 - 8.4.2 Mobile Device Facts
 - 8.4.3 Networking Mobile Devices (10:08)
 - 8.4.4 Synchronizing Mobile Devices (7:07)
 - 8.4.5 Securing Mobile Devices (11:05)
 - 8.4.6 Configuring Email on Mobile Devices (4:57)
 - 8.4.7 Maintaining Mobile Devices (10:06)
 - 8.4.8 Manage Mobile Devices
 - 8.4.9 Exam Questions - Section 8.4
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9. 9.0 Windows System Management

- **9.1 Windows System Tools 95 MIN**
 - 9.1.1 Using Task Manager (20:48)
 - 9.1.2 Using Control Panel (18:59)
 - 9.1.3 Using Management Consoles (12:43)
 - 9.1.4 Viewing System Configuration Information (15:52)
 - 9.1.5 Using Regedit (8:55)
 - 9.1.6 Windows Utilities Facts
 - 9.1.7 System Commands (17:12)
 - 9.1.8 Exam Questions - Section 9.1
 - **9.2 Preferences and Settings 24 MIN**
 - 9.2.1 Personalizing Windows 1 (11:36)
 - 9.2.2 Personalizing Windows 2 (11:43)
 - 9.2.3 Preferences Facts
 - 9.2.4 Exam Questions - Section 9.2
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- **9.3 Performance Monitoring 20 MIN**
 - 9.3.1 Performance Monitoring (3:41)
 - 9.3.2 Monitoring System Performance (16:32)
 - 9.3.3 Performance Monitoring Facts
 - 9.3.4 Exam Questions - Section 9.3
 - **9.4 Users and Groups 36 MIN**
 - 9.4.1 Users and Groups (9:44)
 - 9.4.2 Managing Users and Groups (14:11)
 - 9.4.3 User and Group Facts
 - 9.4.4 Manage Users and Groups
 - 9.4.5 Managing UAC Settings (11:51)
 - 9.4.6 UAC Facts
 - 9.4.7 Exam Questions - Section 9.4
 - **9.5 Remote Services 36 MIN**
 - 9.5.1 Remote Desktop (6:48)
 - 9.5.2 Using Remote Desktop (13:23)
 - 9.5.3 Remote Desktop Facts
 - 9.5.4 Remote Assistance (4:54)
 - 9.5.5 Remote Assistance Facts
 - 9.5.6 Using Remote Assistance (10:22)
 - 9.5.7 Configure Remote Services
 - 9.5.8 Exam Questions - Section 9.5
 - **9.6 Applications 22 MIN**
 - 9.6.1 Applications (3:15)
 - 9.6.2 Managing Applications (17:53)
 - 9.6.3 Application Management Facts
 - 9.6.4 Manage Applications
 - 9.6.5 Exam Questions - Section 9.6
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- **9.7 Updates 30 MIN**
 - 9.7.1 Updates (6:26)
 - 9.7.2 Update Facts
 - 9.7.3 Using Windows Update (12:36)
 - 9.7.4 Configure Windows Update
 - 9.7.5 Performing a Firmware Update (10:21)
 - 9.7.6 Exam Questions - Section 9.7
 - **9.8 System Protection 55 MIN**
 - 9.8.1 System Protection (12:30)
 - 9.8.2 Backup Facts
 - 9.8.3 Creating Backups in Windows Vista and Windows 7 (10:03)
 - 9.8.4 Back Up the Computer
 - 9.8.5 Using Restore Points (18:52)
 - 9.8.6 Create a Restore Point
 - 9.8.7 Using Previous Versions (12:20)
 - 9.8.8 Exam Questions - Section 9.8
 - **9.9 Virtual Memory 18 MIN**
 - 9.9.1 Virtual Memory (9:43)
 - 9.9.2 Managing the Paging File (8:01)
 - 9.9.3 Virtual Memory Facts
 - 9.9.4 Configure Virtual Memory
 - 9.9.5 Exam Questions - Section 9.9
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10. 10.0 System Implementation

- **10.1 Component Selection 21 MIN**
 - 10.1.1 Component Selection (21:06)
 - 10.1.2 Component Selection Facts
 - 10.1.3 Exam Questions - Section 10.1
 - **10.2 Windows Pre-installation 26 MIN**
 - 10.2.1 Windows Versions (9:33)
 - 10.2.2 Pre-installation Planning (11:04)
 - 10.2.3 Windows Versions Facts
 - 10.2.4 Installation Planning Facts
 - 10.2.5 Verifying System Compatibility (5:01)
 - 10.2.6 Exam Questions - Section 10.2
 - **10.3 Windows Installation 32 MIN**
 - 10.3.1 Windows Installation (9:17)
 - 10.3.2 Preparing Disks for Installation (13:09)
 - 10.3.3 Prepare Disks for Installation
 - 10.3.4 Installing Windows (8:33)
 - 10.3.5 Installation Facts
 - 10.3.6 Exam Questions - Section 10.3
 - **10.4 Post Installation 10 MIN**
 - 10.4.1 Post Installation (1:07)
 - 10.4.2 Post Installation Facts
 - 10.4.3 Migrating User Data (8:07)
 - 10.4.4 Exam Questions - Section 10.4
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- **10.5 Virtualization 58 MIN**
 - 10.5.1 Virtualization Overview (15:01)
 - 10.5.2 Virtualization Facts
 - 10.5.3 Virtual Networking (6:09)
 - 10.5.4 Creating a Virtual Machine (19:02)
 - 10.5.5 Virtual Machine Security (16:44)
 - 10.5.6 Virtual Machine Security Facts
 - 10.5.7 Enable VT in the BIOS
 - 10.5.8 Exam Questions - Section 10.5

11. 11.0 File Management

- **11.1 File Locations 19 MIN**
 - 11.1.1 System File Locations (11:59)
 - 11.1.2 File Location Facts
 - 11.1.3 Implementing Libraries (6:32)
 - 11.1.4 Library Facts
 - 11.1.5 Exam Questions - Section 11.1
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- **11.2 Managing Files 75 MIN**
 - 11.2.1 File and Folder Properties (6:07)
 - 11.2.2 Managing Files 1 (14:31)
 - 11.2.3 Managing Files 2 (9:41)
 - 11.2.4 File Extension Facts
 - 11.2.5 Attribute Facts
 - 11.2.6 Manage Files
 - 11.2.7 Using the Command Prompt (2:22)
 - 11.2.8 Managing Files and Directories 1 (20:32)
 - 11.2.9 Managing Files and Directories 2 (20:47)
 - 11.2.10 File Management Commands
 - 11.2.11 Manage Files and Folders
 - 11.2.12 Exam Questions - Section 11.2
 - **11.3 NTFS Permissions 24 MIN**
 - 11.3.1 NTFS Permissions (7:37)
 - 11.3.2 Configuring NTFS Permissions (16:41)
 - 11.3.3 NTFS Permission Facts
 - 11.3.4 Configure NTFS Permissions
 - 11.3.5 Exam Questions - Section 11.3
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- **11.4 Shared Folders 52 MIN**
 - 11.4.1 Shared Folders (4:21)
 - 11.4.2 Sharing Folders 1 (13:27)
 - 11.4.3 Sharing Folders 2 (10:44)
 - 11.4.4 Configuring Share and NTFS Permissions (23:14)
 - 11.4.5 Shared Folder Facts
 - 11.4.6 Share and Secure Folders
 - 11.4.7 Exam Questions - Section 11.4
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14. 14.0 Capstone Exercises

- 14.1 Build a Computer From Scratch
- 14.2 Troubleshoot a Malfunctioning Computer

Review your lab assignments for the final exam