CompTIA A+ (Exams 220-1001 & 220-1002)

Course Overview

A+ Certification is the computer industry recognized credential that certifies the competency of PC Service Specialists. It is sponsored by CompTIA - the Computing Technology Industry Association, and tests are administered by Pearson VUE. This certification program is backed by over 50 Major computer hardware and software manufacturers, vendors, distributors, resellers, and publications. Certification provides a wealth of benefits to any person seeking a job in the computer industry! Your successful computer career can start with this one course, or it can serve as proof of your computer hardware and operating system knowledge as a professional already in your field.

Course Introduction	3m
Course Introduction	
Chapter 01 - IT Professional Soft Skills	35m
IT Professional Soft Skills	
Troubleshooting and Problem Identification	
Troubleshooting Steps	
Problem Analysis and Potential Causes	
Documentation Resources	
Communication and Professionalism	
Demo - IT Professional Soft Skills	
Chapter 01 Review	
Chapter 02 - Safety for You and Computer Components	39m
Safety for You and Computer Components	
Common IT Tools	
Electrostatic Discharge	
Handling Components	
Personal Safety	
High Voltage	
Ergonomics	
Environmental Waste	
Demo - Safety for You and Computer Components	
Chapter 02 Review	
Chapter 03 - System Component Overview	23m
System Component Overview	
Processors and CPUs	
Power Supplies	
Storage Devices	
Adapter Cards	

BIOS/CMOS Chips Input and Output Devices Ports Demo - System Component Chapter 03 Review

Chapter 04 - Understanding Motherboards

Understanding Motherboards Motherboard Chipsets Front and Side Panels Cache Memory RAM Slots BIOS Chip Expansion Slots Connectors and Ports Demo - Understanding Motherboards Chapter 04 Review

Chapter 05 - Understanding Processors

Understanding Processors Data Bus Architecture Chip Packaging Processor Sockets Intel and Non-Intel Chips Additional Core Processors Installing a Processor Demo - Performing Installation of a Processor Chapter 05 Review

Chapter 06 - Understanding Types of Memory

Understanding Types of Memory Understanding Types of Memory - RAM Understanding Types of Memory - ROM Error Checking Memory Single- and Double-sided Memory Installing and Upgrading Memory Demo - Understanding Types of Memory Chapter 06 Review

Chapter 07 - Understanding BIOS and CMOS

Understanding BIOS and CMOS BIOS and Upgrades Understanding (CMOS) Hard Drives Optical Drives RAM Memory Speeds and Ports 30m

34m

26m

Advanced Settings Demo - BIOS and CMOS Chapter 07 Review

Chapter 08 - Hard Drives and Storage Devices

Hard Drives and Storage Devices Hard Disks IDE Devices Demo - Installing IDE Devices Small Computer System Interface Removable Storage Demo - Hard Drives and Storage Devices Chapter 08 Review

Chapter 09 - Power Supplies and Voltage

Power Supplies and Voltage Power Supplies Power Supply Uses Power Consumption Power Connections Demo - Power Supplies and Voltage Chapter 09 Review

Chapter 10 - Ports, Cables, and Connectors

Ports, Cables, and Connectors Cables **Ribbon Cables** Coaxial Cables Twisted Pair Fiber Cable Orientation and Cable Types Male and Female Connections DB-15 RJ-11 RJ-45 Universal Serial Bus (USB) Connections Type-A Type-B Mini-B **External Cables** Types of Adapters and Converters VGA **DVI** Cables HDMI Cables Audio Cables USB Cables and Thunderbolt USB Computer Power Cords Demo - Ports, Cables, and Connectors Hardware Chapter 10 Review

30m

40m

Chapter 11 - Input and Output Devices

Input and Output Devices Video Adapters Video Standards Video Card Features Video Connectors Installing Video Cards Types of Displays Display Features Multiple Displays Troubleshooting Displays Soundcards Demo - Input and Output Devices Chapter 11 Review

Chapter 12 - Managing Printers

Managing Printers Types of Printers Laser Printers Inkjet Printers Dot Matrix Printers Multifunction Printers Cloud-based Printers Thermal Printers Printer Parts Printer Connections Installing Printers Printer Troubleshooting Demo - Printer Install Demo - Managing Printers Chapter 12 Review

Chapter 13 - Mobile Devices, Multimedia, and Laptop Computers

Mobile Devices, Multimedia, and Laptop Computers Laptop Components Demo - Five Laptops Laptop Operations Battery Types Battery Handling Improving Battery Performance Standby and Sleep Modes AC Adapters LCD Panel Displays Keyboards and Keys Troubleshooting Laptops Demo - Mobile Devices, Multimedia, and Laptop Computers Demo - Mobile Device Maintenance Chapter 13 Review 44m

Chapter 14 - Preventive Maintenance

Preventive Maintenance Preventive Tasks Preventive Maintenance Tools - Outside Preventive Maintenance Tools - Inside Common Issues Demo - Preventive Maintenance Hardware Chapter 14 Review

Chapter 15 - Troubleshooting Procedures

Troubleshooting Procedures Common Screws Software Tools Troubleshooting What to Look for Audible Codes Visible Codes What to Look for - Drives and Processors What to Look for - External Parts Demo - Troubleshooting Procedures Chapter 15 Review

Chapter 16 - Operating Systems

Operating Systems Big 3 - Windows, Linux, and Mac Applications Windows Versions Windows 10 Overview Demo - Windows 10 Linux Mac **Operating System Versions** Paging Memory Choosing a Filesystem The Registry Tools and Configuration Utilities Demo - Control Panel Security and Maintenance Windows Security System **Power Options** Storage Spaces Computer Drives Configuration Remote Assistance Demo - Remote Assistance Files Installation and Upgrades for Windows Installation Demo - Operating Systems Command Prompt 1h 7m

1h 39m

Demo - Operating Systems Administrative Tools Demo - Operating Systems Migration Demo - Operating Systems Configurations Chapter 16 Review

Chapter 17 - Managing Files

Managing Files Common Executable File Extensions Common Application File Extensions Common Compression File Extensions Common System File Extensions Graphic File Extensions Miscellaneous Files Questions File Attributes Encryption Setting Attributes Command Prompts Demo - Managing Files Chapter 17 Review

Chapter 18 - Applications Utility, Troubleshooting, and Optimization

Applications Utility, Troubleshooting, and Optimization Installing, Removing, and Repairing Applications Windows Compatibility Modes Optimizing the Windows Environment Performance Monitors Virtual Memory Troubleshooting Utilities System Configuration Utility Computer Management Error Codes Demo - Applications Utility Demo - Troubleshooting Utility Demo - Optimization Chapter 18 Review

Chapter 19 - Configuring Device Drivers

Configuring Device Drivers Changing Device Settings Updating Drivers Removing Device Drivers Plug-and-Play Devices Device Failure Demo - Configuring Drivers Chapter 19 Review 23m

1h 4m

Chapter 20 - Networking and Wireless Connections

Networking and Wireless Connections Peer-to-Peer Server Networks Topology Bus Star Ring Network Protocols Networking Devices Ways to Network a Computer Wireless Communications Securing Routers Installing a Network Adapter Troubleshooting Networks Demo - Networking and Wireless Connections Chapter 20 Review

Chapter 21 - Recovering Systems and Disaster Recovery

Recovering Systems and Disaster Recovery Disaster Recovery Booting into Safe Mode Emergency Repair Backup and Restore Recovery Methods Preventive Maintenance Demo - Recovering Systems Chapter 21 Review

Chapter 22 - Cloud Computing

Cloud Computing Overview Benefits and Risks Deployment Models Cloud Characteristics Planning Cloud Computing Technologies Architecture Infrastructure Cloud Models Virtualization Security Demo - Cloud Storage Chapter 22 Review 25m

Chapter 23 - Security Fundamentals

Security Fundamentals Types of Attackers Types of Attacks Malware Physical Security Authentication Multifactor Authentication Data Protection Data Backups Prevention Methods Security Controls System Hardening Demo - Security Fundamentals Chapter 23 Review

Total Duration: 15h 30m