CompTIA A+ 1101 & 1102

Student-ready learning path and practical course outline

A practical, student-friendly outline covering compTIA A+ 220-1101 Devices, Setups, and Installs, compTIA A+ 220-1101 Displays and Multimedia Devices, comp...

MODULES
11

LESSONS
140

FORMAT
Self-paced

Module Breakdown

MODULE 1

CompTIA A+ 220-1101 Devices, Setups, and Installs

1.1 Introduction to the Course, Meet the Instructor
1.2 Appropriate Safety Procedures
1.3 PC Components
1.4 Guidlines for PC Disassembly
1.5 Motherboards
1.6 CPU Sockets
1.7 PCI Bus
1.8 Storage Bus (SATA and IDE)
1.9 Discussing PC Components
1.10 Common Connection Interfaces
1.11 Wired and Wireless Connection Standards
1.12 Install Peripheral Devices
1.13 Guidlines and Discussion for Installing Peripheral Devices

MODULE 2

CompTIA A+ 220-1101 Displays and Multimedia Devices

2.1 Displays and Multimedia
2.2 Display Device Connections and Cables
2.3 Discussing Display Device Installation and Configuration
2.4 Troubleshoot Display Devices
2.5 Guidelines for Troubleshooting Display Devices
2.6 Discussing Display Device Troubleshooting
2.7 Install and Configure Multimedia Devices
2.8 Discussing Multimedia Device Installation and Configuration

Module Breakdown (continued)

MODULE 3

CompTIA A+ 220-1101 Supporting Multiple Drive Types

3.1 Supporting Multiple Drive Types and Memory
3.2 Memory Types
3.3 RAM Types
3.4 Memory Modules
3.5 DIMM and SO-DIMM Technologies
3.6 Parity and ECC RAM
3.7 Memory Compatibility Issues
3.8 Discussing System Memory Installation
3.9 Install and Configure Mass Storage Devices
3.10 Storage Adapters and Cables
3.11 Solid State Drives
3.12 Guidlines for Installing Mass Storage Devices
3.13 Discussing Mass Storage Device Installation and Configuration
3.14 Install and Configure Removable Storage
3.15 Discussing Removable Storage Device Istallation and Configuration

MODULE 3

CompTIA A+ 220-1101 Supporting Multiple Drive Types (continued)

3.16 Configure RAID
3.17 RAID Configuration Options
3.18 Discussing RAID Configuration
3.19 Troubleshoot Storage Devices
3.20 Boot Failures
3.21 Discussing Storage Device Troubleshooting

MODULE 4

CompTIA A+ 220-1101 Accounting for CPUs and Internal

Components
4.1 Install Upgrade CPUs
4.2 Multiprocessing and Multicore Processors
4.3 Discussing CPU Upgrades
4.4 Configure and Update BIOS UEFI
4.5 Discussing BOIS-UEFI Configuration and Updates
4.6 Install Power Supplies
4.7 Discussing Power Supply Installation
4.8 Troubleshoot Internal System Components
4.9 POST and Boot Problems
4.10 Boot Troubleshooting and Log Entries
4.11 Motherboard Component Problems
4.12 Discussing System Component Troubleshooting

MODULE 5

CompTIA A+ 220-1101 All About Network Theories

5.1 Wired Networks
5.2 Common Ethernet Network Implementations
5.3 Taps and Mirrors
5.4 Discussing Wired Networks
5.5 Network Hardware Devices
5.6 Switches
5.7 Power Over Ethernet
5.8 Discussing Network Hardware Devices
5.9 Wireless Networks
5.10 Access Points and Wireless Network Modes
5.11 Discussing Wireless Networks
5.12 Internet Connection Types
5.13 Wireless Internet Service Providers WISP
5.14 Discussing Internet Connection Types
5.15 Network Configuration Concepts
5.16 The TCIP-IP Protocol Suite
5.17 Internet Protocol and IP Addressing

Module Breakdown (continued)

MODULE 5

CompTIA A+ 220-1101 All About Network Theories (continued)

5.18 Public and Private IP Addresses
5.19 IPv6
5.20 Discussing Network Configuration Concepts
5.21 Network Services
5.22 DNS
5.23 Dynamic and Static IP Configurations
5.24 DNS Records MX and A
5.25 Web Servers and HTTP-HTTPS
5.26 Discussing Network Services

MODULE 6

CompTIA A+ 220-1101 Network Operations and Diagnostics

6.1 Configuring and Troubleshooting Networks
6.2 Network Connections in Windows
6.3 Install and Configure SOHO Networks
6.4 Configure SOHO Network Security
6.5 Firewalls
6.6 Port Fowarding and Port Triggering
6.7 Windows Firewall
6.8 Network Security and Embedded Appliances
6.9 Configure Remote Access
6.10 Discussing Remote Access Configuration
6.11 Troubleshoot Network Connections
6.12 IP Configuration Issues
6.13 Routing Issues
6.14 Discussing Network Connection Troubleshooting

MODULE 7

CompTIA A+ 220-1101 Cloud and Virtualization Computing

7.1 Configure Client-Side Virtulaization
7.2 Hypervisors
7.3 Processor Support and Resource Requirements
7.4 Virtual Networks
7.5 Client-Side Virtualization
7.6 Cloud Computing Concepts
7.7 Internal and External Shared Resources
7.8 Cloud Service Options
7.9 Virtual Desktops
7.10 Software-Defined Networking (SDN)
7.11 Discussing Cloud Computing Concepts

MODULE 8

CompTIA A+ 220-1101 Laptop Features and Troubleshooting

8.1 Use Laptop Features
8.2 Expansion Options
8.3 Discussing Laptop Features
8.4 Install and Configure Laptop Hardware
8.5 Discussing Laptop Hardware Installation and Configuration
8.6 Troubleshoot Common Laptop Issues
8.7 Discussing Troubleshooting Common laptop Issues

MODULE 9

CompTIA A+ 220-1101 Syncing and Setup of Mobile Devices

9.1 Syncing and Setup of Mobile Devices
9.2 Connect and Configure Mobile Devices
9.3 Configure Mobile Device Network Connectivity
9.4 Mobile VPN Configuration
9.5 Email Configuration Options
9.6 Discussing Mobile Device Network Connectivity Configuration
9.7 Support Mobile Apps
9.8 Discussing Mobile App Support

MODULE 10

CompTIA A+ 220-1101 All Things Printing

10.1 All Things Printing
10.2 Discussing Laser Printer Maintenance
10.3 Maintain Inkjet Printers
10.4 Discussing Inkjet Printer Maintenance
10.5 Maintain Impact, Thermal, and 3D Printers
10.6 Discussing Impact, Thermal, and 3D Printer Maintenance
10.7 Install and Configure Printers
10.8 Discussing Printer Installation and Configuration
10.9 Troubleshoot Print Device Issues
10.10 Install and Configure Imaging Devices
10.11 Discussing Device Installation and Configuration

Module Breakdown (continued)

MODULE 11

CompTIA A+ 220-1101 Resources and Testing

11.1 Introduction to Resources and Testing
11.2 Resources and Testing
11.3 Joining a Domain with Windows 10
11.4 Boot Order and BIOS
11.5 Virtual Machine Install & Configure
11.6 PC Teardown
11.7 Exploring the Laptop
11.8 Install Windows 10 Demonstration