

A+ Essentials

Days: 5

Prerequisites: Students taking this course should have user-level skills and knowledge of personal computers. These skills and knowledge can be obtained by completing either of the following courses: Windows 2000: Basic or Windows XP: Basic

Unit 1: Getting started with PC hardware support

- Topic A: Computer components overview
- Topic B: Hardware, software, and firmware
- Topic C: Troubleshooting models

Unit 2: Operating systems

- Topic A: Operating system fundamentals
- Topic B: Directory and file management

Unit 3: Electricity and power supplies

- Topic A: Electrical safety
- Topic B: Power supplies
- Topic C: Power supply troubleshooting

Unit 4: CPUs and motherboards

- Topic A: Central processing units (CPUs)
- Topic B: Packaging, slots, and cooling techniques
- Topic C: Motherboards and system cases
- Topic D: Motherboard troubleshooting

Unit 5: Basic Input/Output System

- Topic A: BIOS and CMOS
- Topic B: The POST process
- Topic C: BIOS and POST troubleshooting

Unit 6: Memory systems

- Topic A: Memory
- Topic B: Memory packaging
- Topic C: Memory troubleshooting

Unit 7: Bus structures

- Topic A: Buses
- Topic B: Host system interaction
- Topic C: The PCI bus
- Topic D: Video buses

Unit 8: Expansion cards

- Topic A: Drive adapters
- Topic B: Video cards
- Topic C: Sound cards
- Topic D: Internal modems
- Topic E: Expansion card troubleshooting

Unit 9: Ports, connectors, and cables

- Topic A: Serial and parallel ports, cables, and connectors
- Topic B: Keyboards, mice, and pointing devices
- Topic C: USB ports, cables, and connectors
- Topic D: FireWire ports, cables, and connectors
- Topic E: Infrared and Bluetooth wireless ports
- Topic F: Multimedia ports, cables, and connectors
- Topic G: Port, cable, and connector troubleshooting

Unit 10: Data storage devices

- Topic A: Hard drives

- Topic B: Optical drives
- Topic C: Removable storage devices
- Topic D: Storage device troubleshooting

Unit 11: Video and multimedia input/output devices

- Topic A: Cathode ray terminals
- Topic B: LCDs and other video technologies
- Topic C: Sound input and output devices
- Topic D: Scanners and cameras

Unit 12: Printers

- Topic A: Dot matrix printers
- Topic B: Inkjet and related printer technologies
- Topic C: Laser printers
- Topic D: Other types of printers

Unit 13: Portable computers and devices

- Topic A: Notebook computers
- Topic B: Handheld computers

Unit 14: Monitoring and management

- Topic A: System monitoring
- Topic B: System management

Unit 15: Operating system troubleshooting

- Topic A: The Windows boot process
- Topic B: System troubleshooting

Unit 16: Connecting computers

- Topic A: Networking concepts
- Topic B: Wired network connections
- Topic C: Wireless network connections
- Topic D: Network architectures

Unit 17: Networking computers

- Topic A: Network communications
- Topic B: Addressing
- Topic C: Internet connections
- Topic D: Network installation
- Topic E: Network troubleshooting

Unit 18: Security

- Topic A: Operating system security
- Topic B: Security hardware
- Topic C: The human aspects of security

Unit 19: Windows installation and upgrades

- Topic A: Installation
- Topic B: Upgrades

Unit 20: Safety

- Topic A: Safety and hazards
- Topic B: Safe work practices
- Topic C: Disposing of computer equipment

Unit 21: Troubleshooting and maintaining a PC

- Topic A: Professionalism and customer satisfaction
- Topic B: Tools and software
- Topic C: Preventative hardware maintenance

Upcoming Classes

Sorry, there are no upcoming classes. Feel free to contact us if you're interested in us putting a class together.