

## Course Specifications

### CompTIA A+ Certification: 220-602, 2nd Edition

**Course number:** IT Technician

**Course length:** 5 days

## CompTIA A+ Certification: 220-602, 2nd Edition

### IT Technician:

For applicants intending to work in a mobile or corporate technical environment with a high level of face-to-face client interaction. Potential job roles include IT administrator, PC technician, and Field Service Technician, as well as non-technical jobs that require understanding of computer repair issues. The exam code is 220-602

### Prerequisites:

CompTIA® A+® Certification: Essentials, 2nd Edition

### Table Of Contents:

#### Unit 1: Power systems

- Topic A: Power supplies
- Topic B: Power conditioning and management
- Topic C: Power supply troubleshooting

#### Unit 2: CPUs and motherboards

- Topic A: CPU and motherboard installation
- Topic B: Motherboard troubleshooting

#### Unit 3: Memory systems

- Topic A: RAM installation
- Topic B: Memory troubleshooting

#### Unit 4: Expansion cards

- Topic A: Host system interaction
- Topic B: Expansion card installation
- Topic C: Laptop expansion device installation
- Topic D: Legacy device installation
- Topic E: Expansion card troubleshooting

#### Unit 5: Data storage devices

- Topic A: Hard drives
- Topic B: Optical drives
- Topic C: Removable storage devices
- Topic D: Tape drives and backup systems

## Registration:

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Topic E: Storage device troubleshooting

### Unit 6: 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: IEEE 1394 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 7: Printers and scanners

Topic A: Printing technologies  
Topic B: Printers  
Topic C: Scanners

### Unit 8: Display devices

Topic A: Monitors  
Topic B: Troubleshooting and maintaining display devices

### Unit 9: Portable computers and devices

Topic A: Communication connections  
Topic B: Component replacement  
Topic C: Portable computer power sources

### Unit 10: Operating system management

Topic A: Directory and file management  
Topic B: System management  
Topic C: The Registry

### Unit 11: Operating system monitoring

Topic A: System monitoring  
Topic B: Event monitoring

### Unit 12: OS maintenance and troubleshooting

Topic A: Operating system maintenance  
Topic B: Operating system troubleshooting

### Unit 13: LAN networking

Topic A: Networking configuration  
Topic B: Resource sharing

### Unit 14: Internet connections

Topic A: Internet connectivity

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Topic B: Network protection

#### Unit 15: Network troubleshooting

Topic A: Network problem resolution

#### Unit 16: Security

Topic A: Local security

Topic B: Auditing and logging

Topic C: The human aspects of security

#### Unit 17: Maintaining the PC environment

Topic A: Safety and hazards

Topic B: Professionalism

Topic C: Troubleshooting and maintaining PCs

#### Appendix A: Certification exam objectives map

Topic A: Comprehensive exam objectives

#### Appendix B: Binary, octal, and hexadecimal numbering

Topic A: Count like a computer

#### Appendix C: Reference tables

Topic A: Error messages and their meanings

Topic B: Interrupts, DMA channels, I/O ports, and more

Topic C: Conventions and precautions

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