

## CompTIA A+ Certification: 220-602 Elective (2006 Objectives)

5 days

### Description

This ILT Series course will prepare students for the CompTIA A+ 220-602 certification exam (2006 Objectives). Students will learn how to support PC hardware in a business setting, including installation, troubleshooting, and component replacement. The target student for this course is responsible for maintaining PCs in their workplace, and has already completed the CompTIA A+ Certification: Essentials course (or has equivalent experience).

### Prerequisites

- *CompTIA A+ Certification: Essentials*

### Course Outline

#### **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  
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

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