

CompTIA A+ Certification Comprehensive: Exams 220-1101 and 220-1102



Days: 5

Prerequisites: This course assumes that you have basic computer knowledge.

Description: This course provides the basic knowledge needed to install, configure, and support computer software and implement networking. This includes:

- Applying basic methodical troubleshooting skills as an IT technician
- Identifying motherboard and CPU components, installing or replacing them, and troubleshooting their functions
- Identifying power supply functions and connectors, installing them into a PC, and troubleshooting power issues
- Configuring BIOS/UEFI firmware, identifying and installing RAM, and troubleshooting memory issues
- Comparing internal and external expansion buses on a computer, installing internal cards, and identifying expansion cables and connectors
- Distinguishing between physical storage technologies, installing drives, and troubleshooting storage problems
- Connecting, configuring, and troubleshooting common input-output devices
- Describing common printing technologies, installing and maintaining printers, and troubleshooting printing issues
- Identifying client operating system features, installing Windows and application software, and working with scripts
- Managing and troubleshooting operating systems using built-in administrative tools, such as the Windows Control Panel, Windows Settings, and command-line utilities
- Describing network principles, network devices, and internet connection technologies
- Identifying and categorizing network cables and connectors
- Configuring and troubleshooting issues related to TCP/IP and other network protocols
- Describing common wireless networking standards and encryption methods
- Configuring and troubleshooting problems with Windows resource sharing and network connections
- Identifying and using virtualization technology and cloud computing services
- Identifying types of mobile devices and operating systems, and configuring and troubleshooting mobile devices
- Recognizing common cybersecurity threats and the security controls which are used to reduce risk
- Identifying and using security features built into operating systems, as well as security hardware and software used on workstations and networks
- Securing workstations and mobile devices against security risks, and troubleshooting common security issues such as malware infection
- Applying best practices in IT operations, including policies, documentation, ticketing systems, incident response, and data backups and recovery

This course maps to the CompTIA A+ Certification 220-1101 and 220-1102 certification exams.

Baton Rouge | Lafayette | New Orleans

www.lantecctc.com

CompTIA A+ Certification Comprehensive: Exams 220-1101 and 220-1102

OUTLINE:

INTRODUCTION

- Course setup
- A+ Certification skills inventory

CHAPTER 1: TROUBLESHOOTING

- Module A: Troubleshooting theory
- Module B: Safety
- Module C: Environmental factors

CHAPTER 2: MOTHERBOARDS AND CPUS

- Module A: Motherboards
- Module B: CPUs

CHAPTER 3: COMPUTER POWER SUPPLIES

- Module A: Power supply connectors
- Module B: Power supply installation
- Module C: Power supply troubleshooting

CHAPTER 4: MEMORY

- Module A: Read-only memory
- Module B: Random access memory

CHAPTER 5: COMPUTER EXPANSION

- Module A: Expansion interfaces
- Module B: Expansion card installation
- Module C: Connectors and cables

CHAPTER 6: PHYSICAL STORAGE

- Module A: Disk drives
- Module B: RAID storage
- Module C: Optical drives
- Module D: Other storage methods

CHAPTER 7: INPUT-OUTPUT DEVICES

- Module A: Input devices
- Module B: Display output devices
- Module C: Display management
- Module D: Other input and output devices

CHAPTER 8: PRINTERS AND MULTI-FUNCTION PRINT DEVICES

- Module A: Printer technologies
- Module B: Printer installation and maintenance
- Module C: Printer troubleshooting

CHAPTER 9: OPERATING SYSTEMS

- Module A: Windows versions and features
- Module B: Non-Windows operating systems
- Module C: Operating system installation and upgrades
- Module D: Applications and scripting

CHAPTER 10: OPERATING SYSTEM MANAGEMENT

- Module A: Operating system features and tools
- Module B: Control Panel utilities
- Module C: Command-line utilities
- Module D: Operating system troubleshooting

CHAPTER 11: NETWORK BASICS

- Module A: Classifying networks
- Module B: Network devices
- Module C: Internet connections

CHAPTER 12: NETWORK CABLES AND CONNECTORS

- Module A: Twisted-pair connections
- Module B: Coaxial connections
- Module C: Optical media

CHAPTER 13: NETWORK PROTOCOLS

- Module A: TCP/IP settings
- Module B: Transport protocols
- Module C: Application protocols

CHAPTER 14: WIRELESS NETWORKING

- Module A: Wireless technology
- Module B: Wi-Fi standards

CHAPTER 15: WINDOWS NETWORKING

- Module A: Network shares
- Module B: Network connections
- Module C: Connection troubleshooting

CHAPTER 16: VIRTUALIZATION AND CLOUD COMPUTING

- Module A: Virtualization
- Module B: Cloud computing

CompTIA A+ Certification Comprehensive: Exams 220-1101 and 220-1102

CHAPTER 17: MOBILE DEVICES

- Module A: Mobile device types
- Module B: Mobile device configuration
- Module C: Mobile device troubleshooting

CHAPTER 18: SECURITY PRINCIPLES

- Module A: Threats and vulnerabilities
- Module B: Security controls

CHAPTER 19: SECURITY TECHNOLOGIES

- Module A: Operating system security
- Module B: Security hardware and software

CHAPTER 20: SECURING DEVICES AND DATA

- Module A: Workstation security
- Module B: Mobile device security
- Module C: Security troubleshooting

CHAPTER 21: SECURING NETWORKS

- Module A: SOHO router features
- Module B: Network security

CHAPTER 22: OPERATIONAL PROCEDURES

- Module A: Professionalism
- Module B: IT operations
- Module C: Incident response
- Module D: Backup and recovery

APPENDIX A: GLOSSARY ALPHABETICAL INDEX