Current Technologies Computer Learning Centers

CompTIA

CompTIA A+

CompTIA's A+ certification is the industry standard for validating the foundational skills needed by today's computer support technicians and is included in the approved list of certifications to meet DoD Directive 8570.1 requirements. If you are getting ready for a career as an entry-level information technology (IT) professional or computer service technician. This course will build on your existing user-level knowledge and experience with personal computer (PC) software and hardware to present fundamental skills and concepts that you will use on the job.

How you'll benefit

This class will help you:

- If you are getting ready for a career as an entry-level information technology (IT) professional or computer service technician.
- Or building on your existing user-level knowledge and experience with personal computer (PC) software and hardware to present fundamental skills and concepts that you will use on the job.
- Receive basic knowledge needed to install, configure, and support computer hardware and operating systems, such as:

    o Assembling components based on customer requirements
    o Installing, configuring and maintaining devices, PCs, and software for end users
    o Understanding the basics of networking and security/forensics
    o Properly and safely diagnosing, resolving, and documenting common hardware and software issues
    o Applying troubleshooting skills
    o Providing appropriate customer support
    o Understanding the basics of virtualization, desktop imaging, and deployment

Why Attend with Current Technologies CLC

- Our Instructors are in the top 10%
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs Run up to Date Code for all our courses

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Objectives

Upon completing this course, the student will be able to meet these objectives:

- Manage server hardware
- Install server hardware and operating systems
- Configure networking hardware and protocols
- Perform basic server configuration tasks
- Create a virtual server environment
- Administer servers
- Implement server storage solutions
- Secure the server
- Plan and test disaster recovery
- Troubleshoot server issues

Course Duration
5 day
Course Price
$2,895.00
Methods of Delivery
• Instructor Led
• Virtual ILT
• On-Site
Certification Exam
220-1001, 220-1002

Who Should Attend

The job roles best suited to the material in this course are:

- This course is designed for individuals who have basic computer user skills and who are interested in obtaining a job as an entry-level IT technician.
- This course is also designed for students who are seeking the CompTIA A+ certification and are preparing for the CompTIA A+ 220-1001 / 220-1002 Certification Exam.

Perquisites

To fully benefit from this course, you should have the following knowledge:

- End-user skills with Windows-based PCs
- Basic knowledge of computing concepts

Outline

Module 1: Introduction

- Course setup
- Computer technician skills inventory

Module 2: Troubleshooting

- Troubleshooting theory
- Safety

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- Professionalism

Module 3: Motherboards and CPU's

- Motherboards
- CPUs

Module 4: Computer Power Supplies

- Power Supply Connectors
- Power Supply Installation
- Power Supply Troubleshooting

Module 5: Memory

- Read-only Memory
- Random Access Memory

Module 6: Computer Expansion

- Expansion Interfaces
- Expansion Cars Installations
- Connectors and Cables

Module 7: Physical Storage

- Disk Drives
- RAID Storage
- Optical Drives
- Other Storage Methods

Module 8: Input-Output Devices

- Configure Firewalls
- Input Devices
- Output Devices
- Dual Input-Output Devices
- Implement Physical Security

Module 9: Display Devices

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- Display Technologies
- Display Management

Module 10: Operating Systems
- Troubleshoot Theory and Methods
- Windows Versions and Features
- Non-Windows Operating Systems
- Operating System Installation and Upgrades
- Applications and Scripting

Module 11: Windows Management
- Operating System Features and Tools
- Control Panel Utilities
- Command-Line Tools
- Operating System Troubleshooting

Module 12: Network Basics
- Classifying Networks
- Network Devices
- Internet Connections

Module 13: Network Cables and Connectors
- Twisted-Pair Connections
- Coaxial Connections
- Optical Media

Module 14: Network Protocols
- TCP/IP Settings
- Transport Protocols
- Application Protocols

Module 15: Wireless Networking
- Wireless Technology

- Wi-Fi Standards

Module 16: Windows Networking
- Network Shares
- Network Connections
- Connection Troubleshooting

Module 17: Virtualization and Cloud Computing
- Virtualization
- Cloud Computing

Module 18: Mobile Devices
- Mobile Device Types
- Mobile Device Configuration
- Mobile Device Troubleshooting

Module 19: Security Principles
- Threats and Vulnerabilities
- Security Controls

Module 20: Security Technologies
- Operating System Security
- Security Hardware and Software

Module 21: Securing Devices and Data
- Workstation Security
- Mobile Device Security
- Security Troubleshooting

Module 22: SOHO Network Configuration
- SOHO Router Features
- Network Security

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Module 23: Printers and Multi-Function Print Devices

- Printer Technologies
- Printer Installation and Maintenance
- Printer Troubleshooting

Module 24: Custom Computers

- Custom Computer Considerations

Module 25: Operational Procedures

- IT Operations
- Environmental Factors
- Incident Response
- Backup and Recovery