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# A+ CERTIFICATION COURSE

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Take the first step in an IT career with COMPTIA A+ Certification!

IT managers are looking for A+ Certified IT professionals. An A+ Certification certifies the competency of the IT's professional skills in the computer industry. Gain the necessary knowledge and skills to become a licensed A+ Technician and successful computer technology career.

## COURSE DESCRIPTION:

Using REAL computers practice your hands-on disassembling and reassembling, install and configure operating system, diagnose and troubleshoot computer problems. This hands-on practice will help you prepare for the A+ Certification exams:

- CompTIA A+ **220-901** covers PC hardware and peripherals, mobile device hardware, networking and troubleshooting hardware and network connectivity issues.
- CompTIA A+ **220-902** covers installing and configuring operating systems including Windows, iOS, Android, Apple OS X and Linux. It also addresses security, the fundamentals of cloud computing and operational procedures.

## ADMISSION REQUIREMENTS:

- Basic computer skills

## COURSE TOPIC:

### PC Hardware

- Identify computer parts including motherboard, memory, hard drive etc.
- What is the computer BIOS and the importance of the BIOS
- Learn to configure and apply BIOS settings
- Differences between motherboard components, their purposes, and properties
- Discuss the different RAM types and features
- Install and configure expansion cards
- Install and configure storage devices and use appropriate media
- Differences among various CPU types and features and selection of the appropriate cooling method
- Contrast of various connection interfaces and their purpose
- Install an appropriate power supply
- Evaluation and selection of appropriate components for a custom configuration, meeting customer specifications or needs
- Types and features of display devices
- Identify connector types and associated cables connecting the hardware to the motherboard
- Install and configure various peripheral devices

### Networking

- Identify types of network cables and connectors
- Categorize characteristics of connectors and cabling
- Properties and characteristics of TCP/IP Protocols
- Common TCP and UDP ports, protocols, and their purposes
- Contrast of wireless networking standards and encryption types
- Install, configure, and deploy a SOHO wireless/wired router using appropriate settings
- Contrast of network devices, their functions, and features
- Use of appropriate networking tools
- Identify various types of networks

## **Laptops**

- Review what the differences between Laptop and desktop parts
- Install and configure laptop hardware and components
- Discuss and identify laptop features

## **Printers**

- Differences between the various printer types and the associated imaging process
- Install, and configure printers
- Perform printer maintenance

## **Operational Procedures**

- Appropriate safety procedures
- Environmental impacts and the purpose of environmental controls
- Proper communication and professionalism
- Fundamentals of dealing with prohibited content/activity

## **Operating System**

- Contrast of the features and requirements of various Microsoft Operating Systems
- Install, and configure the operating system using the most appropriate method
- Appropriate command line tools
- Appropriate operating system features and tools
- Control Panel utilities (the items are organized by “classic view/large icons” in Windows)
- Setup and configure Windows networking on a client/desktop
- Perform preventive maintenance procedures using appropriate tools
- The differences among basic OS security settings
- The basics of client-side virtualization

## **Security**

- Common prevention methods
- Contrast of common security threats
- Security best practices to secure a workstation
- Appropriate data destruction/disposal method
- Secure a SOHO wireless network
- Secure a SOHO wired network

## Mobile Devices

- The basic features of mobile operating systems
- Establish basic network connectivity and configure email
- Identify the different methods for securing mobile devices.
- Identify the hardware differences in regards to tablets and laptops
- Execute and configure mobile device synchronization

## Troubleshooting

- The troubleshooting theory
- Troubleshoot common problems:
  - motherboards, RAM, CPU and power using appropriate tools
  - hard drives and RAID arrays with appropriate tools
  - video and display issues
  - wired and wireless networks with appropriate tools
  - Troubleshoot operating system problems with appropriate tools
- Troubleshoot common security issues using best practices
- Troubleshoot, and repair common laptop issues while adhering to the appropriate procedures
- Troubleshoot printers with appropriate tools

**DURATION:**

24 hours

**DELIVERY FORMAT:**

Live Classroom

**SCHEDULE:**

Visit: [http://www.bttcollege.com/schedules/it\\_schedule.pdf](http://www.bttcollege.com/schedules/it_schedule.pdf) or contact us for flexible schedule.

**CONTACT INFORMATION:**

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