

## COMPTIA A+ CERTIFICATION COURSE



The **A+ Certification Course** covers the Latest 2009 CompTIA A+ Certification syllabus which consists of the 220-701 & 220-702 A+ Examinations. This course is all you need to learn the valuable skills, knowledge and technical recognition required to apply for your A+ Examinations that will open the door to better career opportunities.

The course will help you gain the skills and knowledge necessary to perform tasks on personal computers hardware and operating systems such as installation, PC building, system upgrades, repair, system configuration, troubleshooting, problem diagnosis, and preventative maintenance.

A+ certification is the industry standard for computer support technicians. The international, vendor-neutral certification proves competence in areas such as installation, preventative maintenance, networking, security and troubleshooting.

CompTIA A+ is part of the certification track for corporations such as Microsoft, Hewlett-Packard, Cisco and Novell. Other technology companies, including CompuCom and Ricoh, have made CompTIA A+ certification mandatory for their service technicians.

Every business uses computers and skilled technicians are a necessity. A+ certification opens the door to an exciting career in computer technology at an affordable price.

**PLEASE NOTE:** The A+ Certification Course is designed as a theory-based course but does contain all relevant information on how to complete practical exercises. The course books that we use are Official CompTIA Press Course materials.

A+ certification is the perfect launch pad into other more challenging careers in IT and our complete Study program helps you prepare and pass CompTia's New A+ Certification Program. More than 700,000 people worldwide have become CompTIA A+ certified since the program's inception in 1993.

### The A+ Certification course consists of the following items:

- A+ Essentials 220-701 Course Books
- A+ Practical Applications 220-702 Course Book
- Student Exercise Files CD-ROM

### You will also receive the following items completely free of charge:

- Online CertBlaster A+ Certification Mock Exam Testing software
- 20-piece PC Tool Kit
- Digital Multi-meter
- Sturdy Anti-ESD Wristband
- Course Laptop Bag

**Price:**  
£300.00

**Instalment Options:**  
You can spread the payments for this course over 4 monthly payments. 1 initial payment of £150.00, followed by 3 monthly payments of £50.00.

**Course Format:**  
Course Books with CD ROMs & Online Practice Exams

**Assessment:**  
CompTIA 220-701 & 220-702 A+ Examinations

**Approximate Study Time:**  
200 Hours of Self Study



## ➤ **CompTIA A+ Essentials 220-701 Course Book**

CompTIA A+ Essentials measures the necessary competencies of an entry-level IT professional with at least 500 hours of hands-on experience in the lab or field. It tests for the fundamentals of computer technology, networking and security, as well as the communication skills and professionalism now required of all entry-level IT professionals.

### **The course book covers the following Units:**

- **Unit 1: Troubleshooting Methodology**

The following topics are covered in this unit: Troubleshooting models; and Professionalism.

- **Unit 2: Operating systems**

The following topics are covered in this unit: Operating system fundamentals; Directory and file management; and File and folder permissions.

- **Unit 3: Electricity and power supplies**

The following topics are covered in this unit: Electrical safety; and Power supplies.

- **Unit 4: CPUs and motherboards**

The following topics are covered in this unit: Central processing units; Packaging, slots, and cooling techniques; and Motherboards.

- **Unit 5: The Basic Input/Output System**

The following topics are covered in this unit: The BIOS and CMOS; and The POST and boot processes.

- **Unit 6: Memory systems**

The following topics are covered in this unit: Memory; Memory packaging; and Memory monitoring.

- **Unit 7: Bus structures**

The following topics are covered in this unit: Buses; The PCI bus; and Video buses.

- **Unit 8: Expansion cards**

The following topics are covered in this unit: Drive adapters; Video cards; Sound cards; and Internal modems.

- **Unit 9: Peripheral connection types**

The following topics are covered in this unit: Serial and parallel connections; PS/2 connections; USB connections; FireWire connections; and Multimedia connections.

- **Unit 10: Data storage devices**

The following topics are covered in this unit: Hard drives; Optical drives; Removable storage devices; and Drive maintenance.

- **Unit 11: Video output and image input devices**

The following topics are covered in this unit: Monitors; and Scanners and cameras.

- **Unit 12: Printers**

The following topics are covered in this unit: Printing technologies; and Printer installation and optimization.

- **Unit 13: Connecting computers**

The following topics are covered in this unit: Networking concepts; Wired network connections; and Basic internetworking devices.

- **Unit 14: Networking computers**

The following topics are covered in this unit: Addressing; and Client configuration.

- **Unit 15: Portable computers**

The following topics are covered in this unit: Notebook computers; and Notebook issues.

- **Unit 16: Monitoring and management**

The following topics are covered in this unit: System monitoring; System performance; and System management.

- **Unit 17: Operating system troubleshooting**

The following topics are covered in this unit: Windows startup; and System troubleshooting.

- **Unit 18: Security**

The following topics are covered in this unit: Operating system security; Windows Encrypted File System; Security hardware; and The human aspects of security.

- **Unit 19: Windows installation and upgrades**

The following topics are covered in this unit: Windows installation; and Upgrades.

- **Unit 20: Safety and maintenance**

The following topics are covered in this unit: Safety and hazards; Computer maintenance; Safe work practices; and Disposing of computer equipment.

- **Unit 21: Troubleshooting hardware**

The following topics are covered in this unit: Backups; and Hardware problems.

➤ **CompTIA A+ Practical Application 220-702 Course Book**

CompTIA A+ Practical Application is an extension of the knowledge and skills identified in CompTIA A+ Essentials, with more of a "hands-on" orientation focused on scenarios in which troubleshooting and tools must be applied to resolve problems.

**The course book covers the following Units:**

- **Unit 1: Power systems**

The following topics are covered in this unit: Power supplies; and Power supply troubleshooting.

- **Unit 2: CPUs and motherboards**

The following topics are covered in this unit: CPU and motherboard installation; and Motherboard troubleshooting.

- **Unit 3: Memory systems**

The following topics are covered in this unit: RAM installation; and Memory troubleshooting.

- **Unit 4: Expansion cards**

The following topics are covered in this unit: Host system interaction; Expansion card installation; Expansion card troubleshooting; and Port, cable, and connector troubleshooting.

- **Unit 5: Data storage devices**

The following topics are covered in this unit: Hard drives; Optical drives; Removable storage devices; and Storage device troubleshooting.

- **Unit 6: Printers and scanners**

The following topics are covered in this unit: Maintenance and Troubleshooting.

- **Unit 7: Mobile computing**

The following topics are covered in this unit: Configuration; and Component replacement and troubleshooting.

- **Unit 8: Windows management**

The following topics are covered in this unit: Directory and file management; Resource management; and Remote management.

- **Unit 9: Windows maintenance**

The following topics are covered in this unit: Monitoring; Maintenance; Task Scheduler; and Troubleshooting.

- **Unit 10: SOHO networking**

The following topics are covered in this unit: Networking basics; and Installing a wireless network.

- **Unit 11: Network troubleshooting**

The following topics are covered in this unit: Troubleshooting basics; and Troubleshooting the network.

- **Unit 12: Security**

The following topics are covered in this unit: Common security threats; and Implementing and troubleshooting security.

### Pre-Requirements:

Before taking this course, you should have user-level skills and knowledge of personal computers. You can obtain the required skills and knowledge by completing the CompTIA Strata Course.

**The course is developed as a theory based course. To complete the practical elements of this course you would require Windows Vista and it is recommended (but not required) that you need one of each of the following items for your PC:** Cable Tester; Compressed Air-Cannister; Antistatic Vacuum Cleaner for Computers; Blank CD-R Disc; 3.5" floppy drive and cables; Old, defective floppy disc to dismantle; Computer cleaning materials; CD/DVD cleaning kit; Lint free cloths; Small paintbrush; Tweezers; Computer toolkit (including non-magnetic Phillips-head screwdriver); Digital camera with media card, and associated cables and power cord Drives (hard drives, CD-ROM drive, floppy drive, ZIP drive, DVD drive), controller cards, related media, and cables; Expansion cards (sound, modem and/or network), some with DIP switches or jumpers; FireWire external drive; FM radio; Grounding mat; Grounding strap; IDE hard drive, cables, and controller card-in addition to any already installed in the computer; Infrared devices; Ink-jet printer, cable and power cord Laser printer, cable and power cord; LCD flat panel monitor with DVI connection; Microphone; Mini-PCI adapter; Modem (internal) and drivers; Multimeter; Notebook packing materials; PDA or handheld computer including cables and/or cradle for connecting to the PC and software for synchronizing with the computer Pre-recorded audio/music CD; Radio wireless networking devices; RAM chip; Scanner; Screwdrivers-assorted; Sound Blaster-compatible sound card (internal) with drivers; Speakers; Type I and/or 11 PC Card USB device, adapter and cables; USB flash drive; USB hub; Video card for configuring dual monitors-in addition to one already installed in the computer; Wireless access router or hub; Wireless devices; Bluetooth; Infrared Wireless network adapter card.

### Course Duration & Support:

Students may register at any time. The courses are self-study courses but if you have any difficulties then you can email for support. As the course is self study you can complete in as little or as long a time as you prefer, and we do not impose a cut-off date for study.

### Assessment:

Assessment is from the A+ Certification 220-701 and 220-702 Examinations. Examinations are in a multiple choice/multiple answer format and are 90 minutes in length each.

### Qualification:

On Completion of the A+ Certification Courses, you can apply for your **internationally recognised A+ 220-701 and 220-702 Examinations.**

Examinations must be sat at a registered Prometric or Pearson VUE testing centre and are currently £114.00 + VAT each. You can locate testing centres and schedule appointments on their Websites:



Prometric website – <http://www.prometric.com/>

Pearson VUE - <http://pearsonvue.com/>