

# CompTIA A+

## Description

Gain an understanding of the core components that make up the information technology (IT) landscape while preparing for the CompTIA IT Fundamentals exam. In this introductory course, you will learn the basics of computer hardware, software, mobile computing, networking, troubleshooting, and emerging technologies. You will learn about configuring operating systems, file and folder management, networks and network configuration, and the role of the OSI model in networking and troubleshooting.

### Classroom Registration Price (CHF)

3800

### Virtual Classroom Registration Price (CHF)

3550

### Course Content

#### Module 1: Troubleshooting

- Lesson 1: Troubleshooting theory
- Lesson 2: Safety

#### Module 2: Motherboards and CPU

- Lesson 1: Motherboards
- Lesson 2: CPUs

#### Module 3: Computer Power Supplies

- Lesson 1: Power supply connectors
- Lesson 2: Power supply installation
- Lesson 3: Power supply troubleshooting

#### Module 4: Memory

- Lesson 1: Read-only memory
- Lesson 2: Random access memory

#### Module 5: Computer Expansion

- Lesson 1: Expansion interfaces
- Lesson 2: Expansion card installation
- Lesson 3: Connectors and cables

#### Module 6: Physical Storage

- Lesson 1: Disk drives
- Lesson 2: Redundant array of independent disks (RAID)
- Lesson 3: Optical drives
- Lesson 4: Other storage methods

#### Module 7: Input-Output Devices

- Lesson 1: Input devices
- Lesson 2: Output devices
- Lesson 3: Dual input-output devices

### **Module 8: Display Devices**

- Lesson 1: Display types
- Lesson 2: Display installation
- Lesson 3: Display troubleshooting

### **Module 9: Operating Systems**

- Lesson 1: Windows versions and features
- Lesson 2: Windows installation and upgrades
- Lesson 3: Non-Windows operating systems

### **Module 10: Windows Management**

- Lesson 1: Operating system features and tools
- Lesson 2: Control Panel utilities
- Lesson 3: Command-line tools
- Lesson 4: Troubleshooting

### **Module 11: Network Basics**

- Lesson 1: Classifying networks
- Lesson 2: Network devices
- Lesson 3: Internet connections

### **Module 12: Network Cables and Connectors**

- Lesson 1: Twisted-pair connections
- Lesson 2: Coaxial connections
- Lesson 3: Optical media

### **Module 13: Network Protocols**

- Lesson 1: TCP/IP settings
- Lesson 2: Transport protocols
- Lesson 3: Application protocols

### **Module 14: Wireless Networking**

- Lesson 1: Wi-Fi standards
- Lesson 2: Wireless encryption

### **Module 15: Windows Networking**

- Lesson 1: Sharing and security
- Lesson 2: Network connections
- Lesson 3: Connection troubleshooting

### **Module 16: Virtualization and Cloud Computing**

- Lesson 1: Virtualization
- Lesson 2: Cloud computing

### **Module 17: Mobile Devices**

- Lesson 1: Mobile device types
- Lesson 2: Mobile device connectivity
- Lesson 3: Mobile device troubleshooting

### **Module 18: Security Basics**

- Lesson 1: Security threats
- Lesson 2: Threat prevention

### **Module 19: Securing Devices and Data**

- Lesson 1: Workstation security
- Lesson 2: Mobile device security
- Lesson 3: Security troubleshooting

### **Module 20: SOHO Network Configuration**

- Lesson 1: SOHO router features
- Lesson 2: Network security

### **Module 21: Printers and Multifunction Print Devices**

- Lesson 1: Printer technologies
- Lesson 2: Printer installation
- Lesson 3: Printer maintenance
- Lesson 4: Printer troubleshooting

### **Module 22: Custom Computers**

- Lesson 1: Custom computer considerations

### **Module 23: Operational Procedures**

- Lesson 1: Environment
- Lesson 2: Safety
- Lesson 3: Content and privacy
- Lesson 4: Professionalism

### **Lab / Exercises**

- Official CompTIA labs included

### **Documentation**

- Digital courseware included

### **Exam**

- This course prepares to the CompTIA A+ certification which consists of 2 separate exams: 220-1001 and

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220-1002 or 220-1101 and 220-1102. If you wish to take these exams, please contact our secretariat who will let you know the cost of the exam and will take care of all the necessary administrative procedures for you.

### **Participant profiles**

- IT novices who need a broad, fundamental understanding of IT and who want to learn the basics of computers, computer software, mobile devices, networking, LANs and WANs, data storage, and how IT infrastructures are monitored and managed

### **Prerequisites**

- Good knowledge of PC components and apps
- Little experience in IT support service

### **Objectives**

- Prepare a study plan for the CompTIA IT Fundamentals exam
- Understand basic concepts in computer communication
- Understand basic functions and components of computers
- Understand common internal hardware components, including processors, storage devices, and RAM
- Understand peripheral components such as displays, printers, keyboard and other input/output devices, along with the connectors they use
- Understand basic types of software and considerations for installing, updating, and upgrading software
- Understand mobile devices features, mobile operating systems, and working with mobile interface

### **Niveau**

Fondamental

### **Duration (in Days)**

5

### **Reference**

COM-01