

CompTIA A+ Certification

Overview

If you are getting ready for a career as an entry-level information technology (IT) professional or computer service technician, the CompTIA® A+® course is the first step in your preparation. The 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. In this course, you will acquire the essential skills and information you will need to install, configure, optimize, troubleshoot, repair, upgrade, and perform preventive maintenance on PCs, digital devices, and operating systems. The CompTIA A+ course can benefit you in two ways. Whether you work or plan to work in a mobile or corporate environment where you have a high level of face-to-face customer interaction, where client communication and client training are important, or in an environment with limited customer interaction and an emphasis on hardware activities, this course provides the background knowledge and skills you will require to be a successful A+ technician. It can also assist you if you are preparing to take the CompTIA A+ certification examinations, 2016 objectives (exam numbers 220-901 and 220-902), in order to become a CompTIA A+ Certified Professional.

[Register Online](#)

Schedule

Class Length: 5 Days

G2R = "Guaranteed to Run" OLL = "Online LIVE" ILT = "Instructor-Led-Training"					
05/11/18	G2R	2:00PM - 10:00PM	Lisbon, Portugal	OLL	EUR 950
12/11/18	G2R	4:00PM - 12:00AM	Lisbon, Portugal	OLL	EUR 950
03/12/18	G2R	2:00PM - 10:00PM	Lisbon, Portugal	OLL	EUR 950
17/12/18	G2R	4:00PM - 12:00AM	Lisbon, Portugal	OLL	EUR 950
14/01/19	G2R	2:00PM - 10:00PM	Lisbon, Portugal	OLL	EUR 950

Prerequisites

- Using Microsoft Windows 10

Prerequisite Comments

A+ is a two part course that is sometimes combined and into a single offering at a center's discretion. These two courses are A+ Essentials and A+ Practical. The combined offering is the "A+ Certification". Regardless of the course offering, both parts have associated exams that need to be passed in order to obtain the certification. The A+ Exam codes for Essentials and Practical are 220-701 and 220-702, respectively.

Students taking this course should have the following skills: end-user skills with Windows®-based personal computers, including the ability to: browse and search for information on the Internet; start up, shut down, and log on to a computer and network; run programs; and move, copy, delete, and rename files in Windows Explorer.

Students should also have basic knowledge of computing concepts, including the difference between hardware and software; the functions of software components, such as the operating system, applications, and file systems; and the function of a computer network.

Target Audience

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 who want to prepare for the CompTIA A+ 220-901 Certification Exam and the CompTIA 220-902 Certification Exam.

Course Objectives

In this course, you will install, configure, optimize, troubleshoot, repair, upgrade, and perform preventive maintenance on personal computers, digital devices, and operating systems.

You will:

Identify the hardware components of personal computers and mobile digital devices.

Identify the basic components and functions of operating systems.

Identify networking and security fundamentals.

Identify the operational procedures that should be followed by professional PC technicians.

Install, configure, and troubleshoot display devices.

Install and configure peripheral components.

Manage system components.

Manage data storage.

Install and configure Microsoft Windows.

Optimize and maintain Microsoft Windows.

Work with other operating systems.

Identify the hardware and software requirements for client environment configurations.

Identify network technologies.

Install and configure networking capabilities.

Support mobile digital devices.

Support printers and multifunction devices.

Identify security threats, vulnerabilities, and controls.

Implement security controls.

Troubleshoot system-wide issues.

Course Outline

Hardware Fundamentals

Topic A: Personal Computer Components

Topic B: Storage Devices

Topic C: Mobile Digital Devices

Topic D: Connection Interfaces

Operating System Fundamentals

Topic A: PC and Mobile Operating Systems

Topic B: PC Operating System Tools and Utilities

Networking & Security Fundamentals

Topic A: Network Types

Topic B: Network Components

Topic C: Common Network Services

Topic D: Cloud Concepts

Topic E: Security Fundamentals

Safety & Operational Procedures

Topic A: Basic Maintenance Tools and Techniques
Topic B: Personal and Electrical Safety
Topic C: Environmental Safety and Materials Handling
Topic D: Professionalism and Communication
Topic E: Organizational Policies and Procedures
Topic F: Troubleshooting Theory

Supporting Display Devices

Topic A: Install Display Devices
Topic B: Configure Display Devices
Topic C: Troubleshoot Video and Display Devices

Installing & Configuring Peripheral Components

Topic A: Install and Configure Input Devices
Topic B: Install and Configure Output Devices
Topic C: Install and Configure Input/Output Devices
Topic D: Install and Configure Expansion Cards

Managing System Components

Topic A: Identify Motherboard Components and Features
Topic B: Install and Configure CPUs and Cooling Systems
Topic C: Install Power Supplies
Topic D: Troubleshoot System Components

Managing Data Storage

Topic A: Identify RAM Types and Features
Topic B: Troubleshoot RAM Issues
Topic C: Install and Configure Storage Devices
Topic D: Configure the System Firmware
Topic E: Troubleshoot Hard Drives and RAID Arrays

Installing & Configuring Microsoft Windows

Topic A: Implement Client-Side Virtualization
Topic B: Install Microsoft Windows
Topic C: Use Microsoft Windows
Topic D: Configure Microsoft Windows
Topic E: Upgrade Microsoft Windows

Optimizing & Maintaining Microsoft Windows

Topic A: Optimize Microsoft Windows
Topic B: Back Up and Restore System Data
Topic C: Perform Disk Maintenance
Topic D: Update Software

Working with Other Operating Systems

Topic A: The OS X Operating System
Topic B: The Linux Operating System

Customized Client Enviroments

Topic A: Types of Common Business Clients
Topic B: Custom Client Environments

Networking Technologies

Topic A: TCP/IP Properties and Characteristics
Topic B: TCP/IP
Topic C: Internet Connections
Topic D: Ports and Protocols
Topic E: Networking Tools

Installing & Configuring Networking Capabilities

Topic A: Configure Basic Windows Networking
Topic B: Configure Network Perimeters
Topic C: Using Windows Networking Features
Topic D: Install and Configure SOHO Networks

Supporting Mobile Digital Devices

Topic A: Install and Configure Exterior Laptop Components
Topic B: Install and Configure Interior Laptop Components
Topic C: Other Mobile Devices
Topic D: Mobile Device Accessories and Ports
Topic E: Mobile Device Connectivity
Topic F: Mobile Device Synchronization
Topic G: Troubleshoot Mobile Device Hardware

Supporting Printers & Multifunction Devices

Topic A: Printer and Multifunction Technologies
Topic B: Install and Configure Printers
Topic C: Maintain Printers
Topic D: Troubleshoot Printers

Security Threats, Vulnerabilities, and Controls

Topic A: Common Security Threats and Vulnerabilities
Topic B: General Security Controls
Topic C: Mobile Security Controls
Topic D: Data Destruction and Disposal Methods

Implementing Security Controls

Topic A: Secure Operating Systems
Topic B: Secure Workstations
Topic C: Secure SOHO Networks
Topic D: Secure Mobile Devices

Troubleshooting System-Wide Issues

Topic A: Troubleshoot PC Operating Systems
Topic B: Troubleshoot Mobile Device Operating Systems and Applications
Topic C: Troubleshoot Wired and Wireless Networks
Topic D: Troubleshoot Common Security Issues

Related Courses, Certifications, Exams

- Using Microsoft Windows 10
- CompTIA Network+ Certification
- CompTIA A+
- CompTIA A+ 220-902
- CompTIA A+ 220-901