CompTIA Tech+

Course Duration: 5 Days
Exam Reference: FC0-U71

Course Overview

CompTIA Tech+ is the certification that equips individuals with the basic tech understanding needed to succeed in technology-based roles. It provides the tech literacy essential for today's digital economy, making it the perfect starting point for anyone looking to enhance their career with technology skills. This course covers all the bases, from basic concepts and security to software development, ensuring a well-rounded tech education that's easy to use in any learning setting.

The Official CompTIA Tech+ Student Guide teaches the essential skills and information needed to troubleshoot and problem solve, helps learners understand a wide variety of issues ranging from networking and operating systems to mobile devices and security, and prepares candidates to take the CompTIA Tech+ certification exam (FC0-U71). Developed by CompTIA for the CompTIA certification candidate, the Student Guide has been rigorously evaluated by third-party subject matter experts to validate coverage of the Tech+ exam objectives.

Prerequisites

CompTIA Tech+ is aimed at those considering a career in IT and computer-related fields. There are no formal prerequisites for you to meet to successfully start this course, but a basic understanding of computer systems would be helpful.

Course Objectives

The learner will be able to understand and apply:

- IT Concepts and Terminology - Comprehend notational systems, illustrate the basics of computing and explain the value of data and troubleshooting.
- Software Development - Comprehend programming language categories, interpret logic, and understand the purpose of programming concepts.
- Infrastructure - Know how to set up and install common peripheral devices to a laptop/PC or secure a basic wireless network.
- Database Fundamentals - Able to explain database concepts, structures, and purpose, as well as understand methods used to interface.
- Applications and Software - Manage applications software, understand the various components of an operating system and explain the purpose of methods of application architecture.
- Security - Understand confidentiality, integrity, and availability concerns of secure devices and best practice methods

Course Outline

Module 1.0: Understanding Tech Basics
- Lesson 1.1: Use Technology Effectively
- Lesson 1.2: Explore the Computing Cycle
- Lesson 1.3: Recognize Computing Devices
- Lesson 1.4: Careers in Tech

Module 2.0: Data and Privacy
- Lesson 2.1: Understand Your Data
- Lesson 2.2: Data Privacy
- Lesson 2.3: Passwords and Encryption
- Lesson 2.4: Careers in Data and Privacy

Module 3.0: Internet Technologies
- Lesson 3.1: Identify Internet Basics
- Lesson 3.2: Using a Web Browser
- Lesson 3.3: Internet Service Providers
- Lesson 3.4: Careers in Internet Technologies

Module 4.0 Cybersecurity
- Lesson 4.1: Basic Security Concepts
- Lesson 4.2: Identify Common Security Threats
- Lesson 4.3: Security Tools and Software
- Lesson 4.4: Careers in Cybersecurity

Module 5.0: Networking
- Lesson 5.1: Binary and Other Numbering Systems
- Lesson 5.2: Basic Networking Concepts
- Lesson 5.3: How Networks Work
- Lesson 5.4: Small Wireless Network Specifications
- Lesson 5.5: Virtualization on the Network
- Lesson 5.6: Careers in Networking

Module 6.0: Applications and Software
- Lesson 6.1: Common Applications
- Lesson 6.2: Productivity Software
- Lesson 6.3: Safely Managing Software
- Lesson 6.4: The CompTIA Troubleshooting Methodology
- Lesson 6.5: Careers in Apps and Software

Module 7.0: Operating Systems
- Lesson 7.1: What is an Operating System?
- Lesson 7.2: What Does an Operating System Do?
- Lesson 7.3: File Management
- Lesson 7.4: Data Backup
- Lesson 7.5: Careers in Operating Systems

Module 8.0: Hardware
- Lesson 8.1: Units of Speed and Capacity
- Lesson 8.2: What's Inside a Computer:
- Lesson 8.3: Storage Types
- Lesson 8.4: What Can I Connect to My Device?
- Lesson 8.5: Installing Connected Devices
- Lesson 8.6: Careers in Computer Hardware

Module 9.0: Databases
- Lesson 9.1: Database Basics
- Lesson 9.2: Types of Databases
- Lesson 9.3: Relational Databases
- Lesson 9.4: Careers in Databases

Module 10.0: Coding
- Lesson 10.1: What is Coding?
- Lesson 10.2: Planning a Coding Project?
- Lesson 10.3: Variables and Data Types
- Lesson 10.4: Coding Principles
- Lesson 10.5 Careers in Coding

Module 11.0: The Future of Tech
- Lesson 11.1: Leading Technologies