

CompTIA Tech+

Duration: 3 Days

Course Description:

The CompTIA Tech+ exam will certify the successful candidate has the knowledge and skills required to identify and explain the basics of computing, IT infrastructure, applications, software development, database use, and security concepts. In addition, candidates will demonstrate the knowledge to install peripherals and configure web browsers and wireless networks. Further, this exam will assess the candidate's knowledge in the areas of troubleshooting theory and identification of basic security risks. This exam is designed as a pre-professional certification for candidates who are advanced end users and possibly pursuing professional-level certifications, such as A+ (and beyond) in the future

Course Outlines:

IT Concepts and Terminology

- Explain the basics of computing.
- Identify notational systems
- Compare and contrast common units of measure.
- Explain the troubleshooting methodology.

Infrastructure

- Explain common computing devices and their purposes.
- Explain the purpose of common internal computing components
- Motherboard/system board
- Compare and contrast storage types.
- Given a scenario, install and configure common peripheral devices.
- Compare and contrast common types of input/output device interfaces.
- Compare and contrast virtualization and cloud technologies.
- Compare and contrast common internet service types.
- Identify basic networking concepts.
- Explain the basic capabilities of a small wireless network

Applications and Software

- Identify components of an OS
- Explain the purpose of operating systems
- Explain the purpose and proper use of software
- Given a scenario, configure and use web browser features
- Identify common uses of artificial intelligence (AI)

Software Development Concepts

- Compare and contrast programming language categories
- Identify fundamental data types and their characteristics
- Explain the purpose and use of programming concepts
- Identify programming organizational techniques and logic concepts

Data and Database Fundamentals

- Data and Database Fundamentals
- Explain database concepts and the purpose of a database
- Compare and contrast various database structures
- Explain basic data backup concepts

Security

- Explain fundamental security concepts and frameworks
- Explain methods to secure devices and security best practices
- Explain password best practices
- Identify common use cases for encryption
- Given a scenario, configure security settings for a small wireless network

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