CompTIA Tech+ Training

Duration: **5 Day**

BILGINC IT Academy
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Overview

The training is an entry-level training program designed to provide a strong foundation in**Information Technology (IT)**. The course introduces learners to the essential technologies, systems, and concepts that power today's digital workplace.

Participants will explore **computer systems**, **networking**, **cyber security**, **data management**, **cloud computing**, and **artificial intelligence technologies** while developing practical troubleshooting skills through hands-on exercises and real-world scenarios.

The course serves as an ideal starting point for individuals considering a career in IT and provides excellent preparation for advanced certifications such as **CompTIA A+**.

Prerequisites

There are no formal prerequisites for this course.

CompTIA Tech+ is specifically designed for individuals with little or no previous IT experience.

Who Should Attend

This course is ideal for:

- Students exploring an **IT career**
- Career changers entering the technology industry
- Individuals with limited computer experience
- Aspiring **IT Support Technicians**
- Future **Help Desk Analysts**
- Professionals seeking an internationally recognised entry-level certification

What You Will Learn

By the end of this training, you will have gained knowledge and skills in the following areas:

- Explain core **Information Technology** concepts.
- Identify and configure essential **IT Infrastructure** components.
- Evaluate software applications used for productivity and collaboration.
- Understand and use basic **Database Management** concepts.
- Apply fundamental **Cyber Security** practices.
- Follow a structured **Troubleshooting Methodology**.
- Recognise trends in **Artificial Intelligence**, **Cloud Computing**, and digital transformation.

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Outline

Understanding Technology Fundamentals

- The computing cycle: input, processing, storage, and output
- Device categories including computers, mobile devices, gaming systems, and **IoT devices**
- Digital citizenship and responsible technology use
- Introduction to **IT Career Paths**

Data Management and Privacy

- Personal data protection practices
- Corporate data usage and monetisation
- Privacy considerations in social media and **Artificial Intelligence**
- Password security and encryption fundamentals
- Hands-on password management exercises

Internet Technologies

- Internet fundamentals and web browsing
- Browser customization and security
- Cable, DSL, Fibre, and Wireless connectivity
- Home and small business network configuration labs

Cyber Security

- **Authentication** and **Authorization**
- Social engineering attacks
- **Malware** threats
- **Firewall** technologies
- Antivirus solutions
- Device protection and system maintenance

Networking

- **Binary**, **Hexadecimal**, and **Octal** numbering systems
- Networking hardware and addressing concepts
- Network communication models
- Wireless network deployment and security
- **Virtualization** and **Cloud Connectivity**

Applications and Software

- Email, messaging, and office productivity applications
- Collaboration and communication platforms
- Remote support and file-sharing tools
- **Microsoft Office Suite**
- Software licensing, deployment, and troubleshooting
- **CompTIA Problem-Solving Methodology**

Operating Systems

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- Exploring **Windows**, **Linux**, and **iOS**
- Managing drivers and applications
- System services and maintenance
- File management and backup procedures
- Operating system configuration labs

Hardware Fundamentals

- Storage, speed, and processing concepts
- Internal computer hardware components
- Printers, UPS systems, and peripherals
- Driver installation and updates
- Hardware assembly and configuration labs

Database Fundamentals

- Introduction to **Database Management Systems**
- Comparing spreadsheets and databases
- Relational and non-relational databases
- Data entry and reporting techniques
- Primary keys, foreign keys, and schema design

Coding Fundamentals

- Programming language categories
- Pseudocode and logical thinking
- Variables, arrays, and data types
- Loops, conditions, and functions
- **Object-Oriented Programming (OOP)**
- Debugging and troubleshooting techniques

The Future of Technology

- **Generative AI** and **Quantum Computing**
- Automation and robotics innovations
- Virtual and immersive technologies
- Digital transformation trends
- The evolving role of technology professionals