

[CT-ITF+]: CompTIA IT Fundamentals (Exams FC0-U61)

Length : 3 Days
Delivery Method : Instructor-led (Classroom)

Course Overview

The CompTIA IT Fundamentals (ITF+) course is designed to help you acquire the knowledge and skills to setup and use a computer at home securely and keep it in good working order as well as provide informal support for PCs and simple computer networks in a small business.

Audience Profile

Individual pursuing a career as an IT technician or in IT customer support / helpdesk.
Professionals seeking to prepare for the CompTIA IT Fundamentals+ Exams FC0-U61

At Course Completion

In this course, you will be able to

- Set up a computer workstation and use basic software applications
- Understand the functions and types of devices used within a computer system
- Apply basic computer maintenance and support principles
- Understand some principles of software and database development
- Configure computers and mobile devices to connect to home networks and to the internet
- Identify security issues affecting the use of computers and networks

Pre-Requisites

There are no specific prerequisites.

Course Outline

Module 1: Using Computers

Module 1 / Unit 1: Common Computing Devices

- Information Technology
- Personal Computers (PC)
- Mobile Devices
- Internet of Things (IoT) Devices

Module 1 / Unit 2: Using a Workstation

- Setting up a PC System
- Ergonomic Concepts
- Navigating an OS

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- Using Input Devices
- Recognizing Desktop Icons
- Working with Windows

Module 1 / Unit 3: Using an OS

- Functions of an Operating System
- Types of Operating System
- Virtualization
- Microsoft Windows
- Apple macOS and iOS
- Linux, Chrome, and Android
- File Explorer
- Windows Settings and Control Panel
- Using a Web Browser

Module 1 / Unit 4: Managing an OS

- Management Interfaces
- Process and Service Management
- Memory and Disk Management
- Command Line Interfaces
- Access Control and Protection

Module 1 / Unit 5: Troubleshooting and Support

- Support and Troubleshooting
- Identifying the Problem
- Understanding the Problem
- Resolving and Documenting the Problem
- Troubleshooting PC Issues
- Getting Support
- Using a Search Engine

Module 1 / Summary

- Using Computers

Module 2: Using Apps and Databases

Module 2 / Unit 1: Using Data Types and Units

- Notational Systems
- Units of Measure
- Data Types
- Data Representation
- The Value of Data
- Intellectual Property
- Data-driven Business Decisions

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Module 2 / Unit 2: Using Apps

- Installing Applications
- Application Management
- Managing Software Licensing
- Productivity Software
- Collaboration Software
- Business Software

Module 2 / Unit 3: Programming and App Development

- Programming Logic
- Programming Languages
- Programming Concepts
- Object-Oriented Programming
- Scripting Languages
- Application Platforms and Delivery

Module 2 / Unit 4: Using Databases

- Database Concepts
- Database Structures
- Relational Methods
- Database Access Methods
- Application Architecture Models

Module 2 / Summary

- Using Apps and Databases

Module 3: Using Computer Hardware

Module 3 / Unit 1: System Components

- Selecting a Computer
- Motherboard Components
- Processors
- Features of Processors
- System and Expansion Bus Technologies
- System Cooling
- BIOS and UEFI System Firmware

Module 3 / Unit 2: Using Device Interfaces

- Computer Port and Connector Types
- USB and Firewire
- Graphics Devices
- Graphic Device Interfaces
- Input Devices
- Configuring Peripherals

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- Bluetooth
- RF and Near Field Communications (NFC)
- Networking Interfaces

Module 3 / Unit 3: Using Peripheral Devices

- Installing and Uninstalling Peripherals
- Display Devices
- Display Settings
- Multimedia Ports and Devices
- Printer Types
- Installing and Configuring a Printer
- Scanners and Cameras

Module 3 / Unit 4: Using Storage Devices

- System Memory
- Mass Storage Devices
- Optical Discs and Drives
- Removable Flash Memory Devices

Module 3 / Unit 5: Using File Systems

- Managing the File System
- Folders and Directories
- File Explorer
- Files
- File Attributes and Permissions
- Searching for Folders and Files
- File Types and Extensions

Module 3 / Summary

- Using Computer Hardware

Module 4: Using Networks

Module 4 / Unit 1: Networking Concepts

- Network Components
- TCP/IP
- Internet Protocol
- Packet Delivery and Forwarding
- DNS and URLs
- Internet Application Services

Module 4 / Unit 2: Connecting to a Network

- Internet Service Types
- Wireless Internet Services

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- Setting Up a Wireless Network
- Configuring a Wireless Client
- Connecting to an Enterprise Network

Module 4 / Unit 3: Secure Web Browsing

- Safe Browsing Practices
- Configuring Browser Security
- Managing Cookies and PII
- Digital Certificates and Anti-phishing
- Enabling a Firewall

Module 4 / Unit 4: Using Shared Storage

- Local Network Sharing and Storage
- Windows File Sharing
- Hosted Sharing and Storage
- Backups
- Windows Backup

Module 4 / Unit 5: Using Mobile Devices

- Using a Mobile Device
- Mobile Applications and App Stores
- Network Connectivity
- Email Configuration
- Synchronization and Data Transfer

Module 4 / Summary

- Using Networks

Module 5: Security Concepts

Module 5 / Unit 1: Security Concerns

- Computer Security Basics
- Social Engineering
- Business Continuity
- Disaster Recovery

Module 5 / Unit 2: Using Best Practices

- Securing Devices
- Malware
- Preventing Malware Infections
- Spam
- Software Sources and Patch Management

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Module 5 / Unit 3: Using Access Controls

- Access Controls
- User Account Types
- Authentication Factors
- Uses of Encryption
- Password Cracking and Management

Module 5 / Unit 4: Behavioral Security Concepts

- Policies and Procedures
- Handling Confidential Information
- Acceptable Use Policies
- Expectations of Privacy

Module 5 / Summary

- Managing Security

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