

# CompTIA IT Fundamentals+ (ITF+)

Exam Code: FC0-U61



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## Course Description

### Overview:

If you are a high-end computer user at home or college considering a career in information technology, or interested in furthering your knowledge about personal computers, the *CompTIA® IT Fundamentals+ (ITF+ Exam FC0-U61)* course is the first step in your preparation. In this course, you will identify PC components, work with files and folders, and conduct basic software installations. This course will provide you with the fundamental skills and concepts required to maintain, support, and work efficiently with personal computers. In addition, you will acquire the essential skills and information you need to set up, configure, maintain, troubleshoot, and perform preventative maintenance of the hardware and software components of a basic personal computer workstation and basic wireless devices. You will also implement basic security measures and implement basic computer and user support practices.

Whether you are a home user, an experienced knowledge worker, or someone new to the work force considering an information technology (IT) career, the *CompTIA® IT Fundamentals+ (ITF+ Exam FC0-U61)* course can benefit you in many ways. Having a basic foundational knowledge about personal computers and the skills required to work with them provides you with the starting point to build your career. If your existing job role is linked with personal computers, this course will provide you with the fundamental technical knowledge about personal computers that you need to work efficiently in your current role.

### Course Objectives:

Upon successful completion of this course, you will be able to safely set up a basic workstation, including installing basic hardware and software and establishing basic network connectivity; identify and correct compatibility issues; identify and prevent basic security risks; and practice basic support techniques on computing devices.

You will:

- Identify hardware commonly found in or attached to computing devices.
- Identify software commonly installed on computing devices.
- Set up a basic workstation.
- Configure network access.
- Work with files, folders, and applications.
- Configure and use wireless devices.
- Secure computing devices.
- Support computers and users.

### Target Student:

This course is designed for individuals who are considering a career in information technology (IT) and who might be planning to pursue CompTIA IT Fundamentals+ (ITF+) certification, CompTIA A+™ certification, or other similar certifications.

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## Course Content

### Module 1: Using Computers

#### Unit 1: Common Computing Devices

**Topic A:** Information Technology

**Topic B:** Personal Computers (PC)

**Topic C:** Mobile Devices

**Topic D:** Internet of Things (IoT) Devices

#### Unit 2: Using a Workstation

**Topic A:** Setting up a PC station

**Topic B:** Ergonomic Concepts

**Topic C:** Navigation an OS

**Topic D:** Using Input Devices

**Topic E:** Recognizing Desktop Icons

**Topic F:** Working with Windows

#### Unit 3: Using an OS

**Topic A:** Functions of an Operating System

**Topic B:** Types of Operating Systems

**Topic C:** Virtualization

**Topic D:** Microsoft Windows

**Topic E:** Apple macOS and iOS

**Topic F:** Linux, Chrome, and Android

**Topic G:** File Explorer

**Topic H:** Windows Settings and Control Panel

**Topic I:** Using a Web Browser

#### Unit 4: Managing an OS

**Topic A:** Management Interfaces

**Topic B:** Process and Service Management

**Topic C:** Memory and Disk Management

**Topic D:** Command Line Interfaces

**Topic E:** Access Control and Protection

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## **Unit 5: Troubleshooting and Support**

**Topic A:** Support and Troubleshooting

**Topic B:** Identifying the Problem

**Topic C:** Understanding the Problem

**Topic D:** Resolving and Documenting the Problem

**Topic E:** Troubleshooting PC Issues

**Topic F:** Getting Support

**Topic G:** Using a Search Engine

## **Module 1: Summary**

Using Computers

## **Module 2: Using Apps and Databases**

### **Unit 1: Using Data Types and Units**

**Topic A:** Notational Systems

**Topic B:** Units of Measurement

**Topic C:** Data Types

**Topic D:** Data Representation

**Topic E:** The Value of Data

**Topic F:** Intellectual Property

**Topic G:** Data-Driven Business Decisions

### **Unit 2: Using Apps**

**Topic A:** Installing Applications

**Topic B:** Application Management

**Topic C:** Managing Software Licensing

**Topic D:** Productivity Software

**Topic E:** Collaboration Software

**Topic F:** Business Software

### **Unit 3: Programming and App Development**

**Topic A:** Programming Logic

**Topic B:** Programming Languages

**Topic C:** Programming Concepts

**Topic D:** Object-Oriented Programming

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**Topic E:** Scripting Languages

**Topic F:** Application Platforms and Delivery

## **Unit 4: Using Databases**

**Topic A:** Database Concepts

**Topic B:** Database Structure

**Topic C:** Relational Methods

**Topic D:** Database Access Methods

**Topic E:** Application Architecture Models

## **Module 2: Summary**

Using Apps and Databases

## **Module 3: Using Computer Hardware**

### **Unit 1: System Components**

**Topic A:** Selecting a Computer

**Topic B:** Motherboard Components

**Topic C:** Processors

**Topic D:** Features of Processors

**Topic E:** System and Expansion Bus Technologies

**Topic F:** System Cooling

**Topic G:** BIOS and UEFI System Firmware

### **Unit 2: Using Device Interfaces**

**Topic A:** Computer Port and Connector Types

**Topic B:** USB and Firewire

**Topic C:** Graphic Devices

**Topic D:** Graphic Device Interfaces

**Topic E:** Input Devices

**Topic F:** Configuring Peripherals

**Topic G:** Bluetooth

**Topic H:** RF and Near Field Communication (NFC)

**Topic I:** Networking Interfaces

### **Unit 3: Using Peripheral Devices**

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**Topic A:** Installing and Uninstalling Peripherals

**Topic B:** Display Devices

**Topic C:** Display Settings

**Topic D:** Multimedia Ports and Devices

**Topic E:** Printer Types

**Topic F:** Installing and Configuring a Printer

**Topic G:** Scanners and Cameras

## **Unit 4: Using Storage Devices**

**Topic A:** System Memory

**Topic B:** Mass Storage Devices

**Topic C:** Optical Disks and Drives

**Topic D:** Removable Flash Memory Devices

## **Unit 5: Using Files Systems**

**Topic A:** Managing the File System

**Topic B:** Folders and Directories

**Topic C:** File Explorer

**Topic D:** Files

**Topic E:** File Attributes and Permissions

**Topic F:** Searching for Folders and Files

**Topic G:** File Types and Extensions

## **Module 3: Summary**

Using Computer Hardware

## **Module 4: Using Networks**

### **Unit 1: Networking Concepts**

**Topic A:** Network Components

**Topic B:** TCP/IP

**Topic C:** Internet Protocol

**Topic D:** Packet Delivery and Forwarding

**Topic E:** DNS and URLs

**Topic F:** Internet Application Services

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## Unit 2: Connection to a Network

**Topic A:** Internet Service Types

**Topic B:** Wireless Internet Services

**Topic C:** Setting up a Wireless Internet

**Topic D:** Configuring a Wireless Client

**Topic E:** Connecting to an Enterprise Network

## Unit 3: Secure Web Browsing

**Topic A:** Safe Browsing Practices

**Topic B:** Configuring Browser Security

**Topic C:** Managing Cookies and PII

**Topic D:** Digital Certificates and Anti-Phishing

**Topic E:** Enabling a Firewall

## Unit 4: Using Shared Storage

**Topic A:** Local Network Sharing and Storage

**Topic B:** Windows File Sharing

**Topic C:** Hosted Sharing and Storage

**Topic D:** Backups

**Topic E:** Windows Backup

## Unit 5: Using Mobile Devices

**Topic A:** Using a Mobile Device

**Topic B:** Mobile Applications and App Stores

**Topic C:** Network Connectivity

**Topic D:** Email Configuration

**Topic E:** Synchronization and Data Transfer

## Module 4: Summary

Using Networks

## Module 5: Security Concepts

### Unit 1: Security Concerns

**Topic A:** Computer Security Basics

**Topic B:** Social Engineering

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**Topic C:** Business Continuity

**Topic D:** Disaster Recovery

## **Unit 2: Using Best Practices**

**Topic A:** Securing Devices

**Topic B:** Malware

**Topic C:** Preventing Malware Infections

**Topic D:** Spam

**Topic E:** Software Sources and Patch Management

## **Unit 3: Using Access Controls**

**Topic A:** Access Controls

**Topic B:** User Account Types

**Topic C:** Authentication Factors

**Topic D:** Uses of Encryption

**Topic E:** Password Cracking and Management

## **Unit 4: Behavioral Security Concepts**

**Topic A:** Policies and Procedures

**Topic B:** Handling Confidential Information

**Topic C:** Acceptable Use Policies

**Topic D:** Expectations of Privacy

## **Module 5: Summary**

Managing Security