



Official CompTIA learning resources



OVERVIEW

The Official CompTIA IT Fundamentals (ITF+) (Exam FCo-U61) will provide students with the fundamental IT skills and concepts required to identify and explain the basics of computing, IT infrastructure, software development, and database use. In addition, students will acquire the essential skills and information they 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. Students will also learn to implement basic security measures and implement basic computer and user support practices as well as prepare candidates to take the CompTIA IT Fundamentals (ITF+) certification exam.

WHO WOULD BENEFIT

- · Students consideringa career in IT
- · Students and career changers considering a career in IT
- Marketing, sales and operations staff in IT-based organizations

COURSE CONTENT SUMMARY

Module 1

Using Computers

Module 1 / Unit 1: Common Computing Devices Information Technology Personal Computers (PC) Mobile and IoT Devices

Module 1 / Unit 2: Using a Workstation

Setting up a PC System Ergonomic Concepts Navigating an OS Using Input Devices Icons and 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

Developing a Troubleshooting Approach Troubleshooting PC Issues Getting Support Using a Search Engine

Module 2

Using Apps and DatabasesModule 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

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 3

Using Computer Hardware

Module 3/Unit 1: System Components
Selecting a Computer
Motherboard Components
Processors
Features of Processors
Expansion Bus
System Cooling

BIOS and UEFI System Firmware

Module 3 / Unit 2: Using Device

Interfaces
Computer Connector Types
USB and Firewire
Graphic Devices
Graphic Device Interfaces
Input Devices
Configuring Peripherals
Bluetooth and 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

Scanners and Cameras Module 3 / Unit 4: Using Storage Devices

System Memory Mass Storage Devices Optical Discs and Drives 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 4 Using Networks

Module 4 / Unit 1: Networking Concepts

Network Components TCP/IP

Internet Protocol Address Resolution Protocol DNS and URLs Internet Application Services

Module 4 / Unit 2: Connecting to a Network

Internet Service Types Wireless Internet Services Setting Up a Wireless Network Configuring a Wireless Client

Module 4 / Unit 3: Secure Web Browsing

Safe Browsing Practices
Configuring Browser Security
Managing Cookies and PII
Digital Certificates and Antiphishing

Enabling a Firewall Module 4 / Unit 4: Using Shared Storage

Local 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 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

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 S

ecurity Concepts
Policies and Procedures

Handling Confidential Information Acceptable Use Policies Expectations of Privacy

Taking the Exam Career Advice Glossary

