



Official CompTIA Content  
for Instructor-Led Training:

# CompTIA IT Fundamentals (ITF+)

Official CompTIA Content for Instructor-Led Training is designed with the instructor in mind, providing insights and tools on how to successfully train learners pursuing their CompTIA IT Fundamentals (ITF+) certification.

## 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.

### Official Content:

- The Official CompTIA IT Fundamentals (ITF+) Instructor Guide (Exam FCo-U61)
  - Print
  - eBook
- The Official CompTIA IT Fundamentals (ITF+) Student Guide (Exam FCo-U61)
  - Print
  - eBook
- CompTIA CHOICE Digital Learning Platform
  - Online resources included with purchase of Guides
- CompTIA ITF+ (Exam FCo-U61) CompTIA Labs
- CompTIA CertMaster Practice for ITF+ (Exam FCo-U61)
  - Online

## Why is Official CompTIA Content different?

- **For exam takers, by the exam developer** - Official CompTIA Content is the only study material exclusively developed by CompTIA for the CompTIA certification candidate.
- **Complete Library** - No other content library covers all exam objectives for all certifications. It provides complete breadth, depth and currency of material unavailable with competitors.
- **Developed with the instructor in mind** - Official CompTIA Content's focus on instruction is unique, providing instructors ease and flexibility to teach to any audience within any modality.

## Key Features and Benefits

- **Designed and Class-tested for Instructor-Led Training** using proven instructional design. Topics are presented in a hierarchy that offers knowledge, procedural tasks and hand-on activities that require students put knowledge into practice. This approach keeps student engaged and ensures success.
- **Focused on job roles and 100% coverage of exam objectives** means content is practical, based on real performance scenarios. In addition, content is aligned to certification exam objectives.
- **Active Learning** is integrated with one activity per topic designed to enable students to practice guidelines and procedures as well as solidify understanding of the informational material presented in the course.
- **Flexible and customizable based on course format** whether the course is co-located or remote, synchronous or asynchronous. Class resources can be easily configured based on modality.
- **Comprehensive instructor resources** enhanced through CompTIA CHOICE platform ensures a successful course delivery. Resources to download include:
  - **Course setup notes** describe hardware and software requirements
  - **Course-specific delivery tips** with insights to deliver the course material
  - **Presentation planners** help plan and schedule course based on different course lengths
  - **PowerPoint slides**
  - **Facilitator notes** in instructor manual
  - **Solutions** to activities and discussions
- **Comprehensive student resources enhanced through CompTIA CHOICE** platform engages students by providing:
  - **Classroom:** A link to the training provider's classroom environment
  - **eBook:** An interactive online version of the book, along with secure PDF and downloadable versions
  - **Files:** Any course files available to download
  - **Videos:** Brief animated videos that enhance and extend the classroom learning experience
  - **Assessment:** Questions designed for self-assessment of the course content
  - **Checklists:** Step by step procedures for recurring IT tasks that are part of the course objectives and as post-class references
  - **Links:** Helpful links to certification exam information, CompTIA's IT Careers blog, and additional resources for test prep
  - **Locker:** A resource allowing for secure file exchange with students

## Benefits of CompTIA CHOICE Platform

- **User Friendly:** CHOICE is designed to be easy to navigate, with clickable tiles that make it simple for students to find and access the resources they need.
- **Easily Scalable:** CHOICE provides organizations with centralized deployment of any internet-based learning tool.
- **Cloud-Based:** CHOICE is built and hosted on cloud-based Amazon Web Services, keeping the platform running smoothly and minimizing the potential for downtime.
- **Fully Customizable:** CHOICE's configuration options allow for the creation of unique courses for any audience or modality.

## Lab option

- CompTIA Labs hosted by Learn on Demand Systems allow students to learn in actual software applications through a remote lab environment. Labs allow students to practice what they are learning using real, hands-on experiences. Students have access to the software environment for 6 months after a CompTIA Labs access key is redeemed, providing a fantastic post-class resource for students to practice their skills.

## Exam Prep Option

- CompTIA CertMaster Practice is an online knowledge assessment and certification training companion tool. Featuring question-first design, real-time learning analytics, and content refreshers, CertMaster Practice quickly assesses a learner's base of knowledge and then focuses on filling gaps with personalized remediation and feedback. By helping learners focus on their weak areas, CertMaster Practice builds their confidence and ensures mastery for success on the exam and long-term retention of the material as they progress through their careers.

# Course Overview



CompTIA IT Fundamentals (ITF+) is an introduction to basic IT knowledge and skills that helps students decide if a career in IT is right for them. It also helps organizations prepare non-technical teams for digital transformation.

After completing the course, students will have the ability to demonstrate their knowledge to:

- Install software
- Establish basic network connectivity
- Identify/prevent basic security risks
- Explain troubleshooting theory and preventative maintenance of devices

This course will assist you if you are pursuing the CompTIA IT Fundamentals (ITF+) (Exam FC0-U61)

## Who would benefit from IT Fundamentals (ITF+)

- Students considering a 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 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

##### 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 Printer  
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 Anti-phishing  
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 Security Concepts

Policies and Procedures  
Handling Confidential Information  
Acceptable Use Policies  
Expectations of Privacy  
Taking the Exam  
Career Advice  
Glossary



## Purchase Everything in One Place

Official CompTIA Content is available on the CompTIA Store at [store.comptia.com](https://store.comptia.com), which means partners will be able to obtain Official CompTIA Content, CompTIA CertMaster products and exam vouchers all in one place.

Please contact your CompTIA business development representative for more information.