

Course outlines : CompTIA IT Fundamentals+ (Exam FC0-U61)

Module 1 : Using Computers

- Common Computing Devices
- Information Technology
- Personal Computers (PC)
- Mobile Devices
- Internet of Things (IoT) Devices
- Using a Workstation
- Setting up a PC System
- Ergonomic Concepts
- Navigating an OS
- Using Input Devices
- Recognizing Desktop Icons
- Working with Windows
- 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, Managing an OS
- Management Interfaces
- Process and Service Management
- Memory and Disk Management
- Command Line Interfaces
- Access Control and Protection
- 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
- Using Computers

Module 2 : Using Apps and Databases

- Using Data Types and Units
- Notational Systems
- Units of Measure
- Data Types, Data Representation
- The Value of Data
- Intellectual Property
- Data-driven Business Decisions
- Using Apps, Installing Applications
- Application Management
- Managing Software Licensing
- Productivity Software
- Collaboration Software
- Business Software
- Programming and App Development
- Programming Logic
- Programming Languages
- Programming Concepts
- Object-Oriented Programming
- Scripting Languages
- Application Platforms and Delivery
- Using Databases, Database Concepts
- Database Structures
- Relational Methods
- Database Access Methods
- Application Architecture Models
- Using Apps and Databases

Module 3 : Using Computer Hardware

- System Components
- Selecting a Computer
- Motherboard Components
- Processors, Features of Processors
- System and Expansion Bus Technologies
- System Cooling
- BIOS and UEFI System Firmware
- Using Device Interfaces
- Computer Port and Connector Types
- USB and Firewire, Graphics Devices
- Graphic Device Interfaces
- Input Devices, Configuring Peripherals
- Bluetooth

- RF and Near Field Communications (NFC)
- Networking Interfaces, 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
- Using Storage Devices
- System Memory, Mass Storage Devices
- Optical Discs and Drives
- Removable Flash Memory Devices
- 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
- Using Computer Hardware

Module 4 : Using Networks

- Networking Concepts
- Network Components
- TCP/IP
- Internet Protocol
- Packet Delivery and Forwarding
- DNS and URLs, Internet Application Services
- Connecting to a Network
- Internet Service Types
- Wireless Internet Services
- Setting Up a Wireless Network
- Configuring a Wireless Client
- Connecting to an Enterprise Network
- Secure Web Browsing, Safe Browsing Practices
- Configuring Browser Security
- Managing Cookies and PII
- Digital Certificates and Anti-phishing
- Enabling a Firewall, Using Shared Storage
- Local Network Sharing and Storage
- Windows File Sharing
- Hosted Sharing and Storage

- Backups, Windows Backup
- Using Mobile Devices
- Using a Mobile Device
- Mobile Applications and App Stores
- Network Connectivity, Email Configuration,
- Synchronization and Data Transfer
- Using Networks

Module 5 : Security Concepts

- Security Concerns
- Computer Security Basics
- Social Engineering
- Business Continuity
- Disaster Recovery
- Using Best Practices
- Securing Devices
- Malware
- Preventing Malware Infections
- Spam
- Software Sources and Patch Management
- Using Access Controls, Access Controls
- User Account Types
- Authentication Factors
- Uses of Encryption
- Password Cracking and Management
- Behavioral Security Concepts
- Policies and Procedures
- Handling Confidential Information
- Acceptable Use Policies
- Expectations of Privacy
- Managing Security