



CompTIA: IT Fundamentals (ITF+)

Course ID #: 7000-335-ZZ-Z

Hours: 35

Course Content

Course Description:

From networking and cybersecurity essentials to hardware and software basics, IT Fundamentals demonstrates your readiness for the digital workplace.

The CompTIA IT Fundamentals certification is designed to help you learn more about the world of information technology (IT). It's ideal if you're considering a career in IT or if you work in an allied field that requires a broad understanding of IT. CompTIA IT Fundamentals can also be a stepping stone to more advanced certifications such as CompTIA A+, and, with specialized experience, CompTIA Network+ and CompTIA Security+.

Topics:

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
- 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

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

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
- 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

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



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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

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

Module 5 / Summary

- Managing Security

Taking the Exam

Career Advice