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## 1. Course Objective

Kick start your prep for the CompTIA IT Fundamentals FC0-U51 certification exam with the CompTIA IT Fundamentals course and performance-based labs. Performance-based labs simulate real-world, hardware, software & command line interface environments and can be mapped to any text-book, course & training. The complete cert guide covers all the objectives of the IT Fundamentals FC0-U51 exam and provides expertise and technical knowledge required to identify and explain computer components, set up a basic workstation; conduct basic software installation; install software; establish network connectivity and prevent security risks.

## 2. Pre-Assessment

Pre-Assessment lets you identify the areas for improvement before you start your prep. It determines what students know about a topic before it is taught and identifies areas for improvement with question assessment before beginning the course.

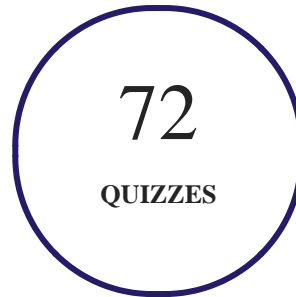
## 3. Exercises

There is no limit to the number of times learners can attempt these. Exercises come with detailed remediation, which ensures that learners are confident on the topic before proceeding.

240  
EXERCISES

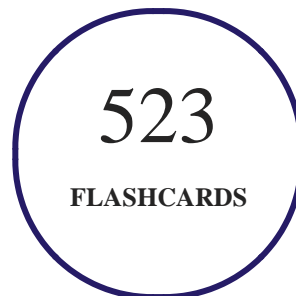
## 4. Quizzes

Quizzes test your knowledge on the topics of the exam when you go through the course material. There is no limit to the number of times you can attempt it.



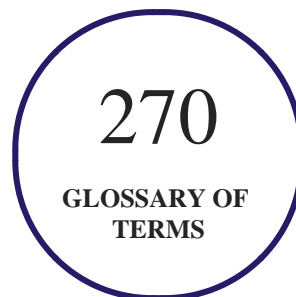
## 5. Flashcards

Flashcards are effective memory-aiding tools that help you learn complex topics easily. The flashcard will help you in memorizing definitions, terminologies, key concepts, and more. There is no limit to the number of times learners can attempt these. Flashcards help master the key concepts.



## 6. Glossary of terms

uCertify provides detailed explanations of concepts relevant to the course through Glossary. It contains a list of frequently used terminologies along with its detailed explanation. Glossary defines the key terms.



## 7. Expert Instructor-Led Training

uCertify uses the content from the finest publishers and only the IT industry's finest instructors. They have a minimum of 15 years real-world experience and are subject matter experts in their fields. Unlike a live class, you can study at your own pace. This creates a personal learning experience and gives you all the benefit of hands-on training with the flexibility of doing it around your schedule 24/7.

## 8. ADA Compliant & JAWS Compatible Platform

uCertify course and labs are ADA (Americans with Disability Act) compliant. It is now more accessible to students with features such as:

- Change the font, size, and color of the content of the course
- Text-to-speech, reads the text into spoken words
- Interactive videos, how-tos videos come with transcripts and voice-over
- Interactive transcripts, each word is clickable. Students can clip a specific part of the video by clicking on a word or a portion of the text.

JAWS (Job Access with Speech) is a computer screen reader program for Microsoft Windows that reads the screen either with a text-to-speech output or by a Refreshable Braille display. Student can easily navigate uCertify course using JAWS shortcut keys.

## 9. State of the Art Educator Tools

uCertify knows the importance of instructors and provide tools to help them do their job effectively. Instructors are able to clone and customize course. Do ability grouping. Create sections. Design grade scale and grade formula. Create and schedule assignments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

## 10. Award Winning Learning Platform (LMS)

uCertify has developed an award winning, highly interactive yet simple to use platform. The SIIA CODiE Awards is the only peer-reviewed program to showcase business and education technology's

finest products and services. Since 1986, thousands of products, services and solutions have been recognized for achieving excellence. uCertify has won CODiE awards consecutively for last 5 years:

- **2014**

1. Best Postsecondary Learning Solution

- **2015**

1. Best Education Solution
2. Best Virtual Learning Solution
3. Best Student Assessment Solution
4. Best Postsecondary Learning Solution
5. Best Career and Workforce Readiness Solution
6. Best Instructional Solution in Other Curriculum Areas
7. Best Corporate Learning/Workforce Development Solution

- **2016**

1. Best Virtual Learning Solution
2. Best Education Cloud-based Solution
3. Best College and Career Readiness Solution
4. Best Corporate / Workforce Learning Solution
5. Best Postsecondary Learning Content Solution
6. Best Postsecondary LMS or Learning Platform
7. Best Learning Relationship Management Solution

- **2017**

1. Best Overall Education Solution
2. Best Student Assessment Solution
3. Best Corporate/Workforce Learning Solution
4. Best Higher Education LMS or Learning Platform

- **2018**

1. Best Higher Education LMS or Learning Platform
2. Best Instructional Solution in Other Curriculum Areas

### 3. Best Learning Relationship Management Solution

## 11. Chapter & Lessons

uCertify brings these textbooks to life. It is full of interactive activities that keeps the learner engaged. uCertify brings all available learning resources for a topic in one place so that the learner can efficiently learn without going to multiple places. Challenge questions are also embedded in the chapters so learners can attempt those while they are learning about that particular topic. This helps them grasp the concepts better because they can go over it again right away which improves learning.

Learners can do Flashcards, Exercises, Quizzes and Labs related to each chapter. At the end of every lesson, uCertify courses guide the learners on the path they should follow.

## Syllabus

### Chapter 1: Introduction

- What Is the CompTIA IT Fundamentals Certification?
- Why Become IT Fundamentals Certified?
- How to Become IT Fundamentals Certified?
- Tips for Taking the IT Fundamentals Exam
- Who Should Read This Book?
- What Does This Book Cover?
- What's Included in the Book?
- Interactive Online Learning Environment and Test Bank



- How to Use this Book?
- Exam Objectives
- CompTIA IT Fundamentals Study Guide

## Chapter 2: Core Hardware Components

- Introducing Internal Components
- Exploring Motherboards, Processors, and Memory
- Exploring Storage and Expansion Devices
- Exploring Power and Cooling
- Summary
- Exam Essentials
- Written Labs

## Chapter 3: Peripherals and Connectors

- Audio, Video, and Printers
- Input Devices
- External Storage and Other Connectors
- Summary
- Exam Essentials

- Written Labs

## Chapter 4: Operating Systems

- Operating System Fundamentals
- Navigating an Operating System
- Summary
- Exam Essentials
- Lesson 3 Lab
- Answers To The Lab

## Chapter 5: Software Applications

- Common Software Applications and File Types
- Software Management Best Practices
- Summary
- Exam Essentials
- Lesson 4 Lab
- Answers To The Lab

## Chapter 6: Networking Technologies and Wireless Routers

- Connection Types and Features
- Network Connectivity Essentials
- Setting Up a SOHO Router
- Summary
- Exam Essentials
- Lesson 5 Lab
- Answers To Written Lab

## Chapter 7: Network Sharing and Storage

- Local Network Sharing
- Web-Based Sharing and Access
- Summary
- Exam Essentials
- Lesson 6 Lab

## Chapter 8: Mobile Devices

- Using Wireless Devices
- Summary

- Exam Essentials
- Lesson 7 Lab

## Chapter 9: Security Threats

- Understanding Hacking
- Understanding Security Threats
- Summary
- Exam Essentials
- Lesson 8 Lab

## Chapter 10: Security Best Practices

- Computer and Network Security Best Practices
- Internet Security Best Practices
- Summary
- Exam Essentials
- Lesson 9 Lab

## Chapter 11: Buying and Configuring a Workstation

- Buying and Configuring a Workstation

- Summary
- Exam Essentials
- Lesson 10 Lab

## Chapter 12: Computer Support and Backups

- Basic Computer Support Concepts
- Computer Backups
- Summary
- Exam Essentials
- Lesson 11 Lab

## Chapter 13: Environmental and Safety Concepts

- Safe Interactions with Computers
- Summary
- Exam Essentials
- Lesson 12 Lab
- Answers To The Lab

## Chapter 14: Appendix

- Videos

## Videos and How To

uCertify course includes videos to help understand concepts. It also includes How Tos that help learners in accomplishing certain tasks.

55

VIDEOS

18:27

HOURS

## 12. Practice Test

uCertify provides full length practice tests. These tests closely follow the exam objectives and are designed to simulate real exam conditions. Each course has a number of test sets consisting of hundreds of items to ensure that learners are prepared for the certification exam.

### Here's what you get

45

PRE-ASSESSMENTS QUESTIONS

50

POST-ASSESSMENTS QUESTIONS

## Features

### Full Remediation

Each question comes with detailed remediation explaining not only why an answer option is correct but also why it is incorrect.

### Unlimited Practice

Each test can be taken unlimited number of times until the learner feels they are prepared. Learner can review the test and read detailed remediation. Detailed test history is also available.

### Learn, Test and Review Mode

Each test set comes with learn, test and review modes. In learn mode, learners will attempt a question and will get immediate feedback and complete remediation as they move on to the next question. In test mode, learners can take a timed test simulating the actual exam conditions. In review mode, learners can read through one item at a time without attempting it.

## 13. Performance Based Labs

uCertify's performance-based labs are simulators that provides virtual environment. Labs deliver hands on experience with minimal risk and thus replace expensive physical labs. uCertify Labs are cloud-based, device-enabled and can be easily integrated with an LMS. Features of uCertify labs:

- Provide hands-on experience in a safe, online environment
- Labs simulate real world, hardware, software & CLI environment
- Flexible and inexpensive alternative to physical Labs
- Comes with well-organized component library for every task
- Highly interactive - learn by doing
- Explanations and remediation available
- Videos on how to perform

## Lab Tasks

- Converting a decimal number to binary
- Assessing your computer's RAM and virtual memory
- Identifying a PCI-bus slot
- Identifying Slots of a Motherboard
- Identifying an AGP slot
- Identifying the Motherboard Form Factors
- Identifying a CPU slot
- Installing a processor and identifying motherboard components
- Installing SDRAM and DDR memory modules
- Identifying Types of RAM
- Installing a Motherboard, Processor, and Processor Fan
- Connecting the motherboard to the internal hard drive
- Supplying power to a SATA drive
- Identifying Video Card Components
- Installing PCIe Cards on the Motherboard
- Installing an SMPS and connecting it to the motherboard
- Inserting Ink Cartridges into a Printer
- Identifying desktop PC ports
- Identifying printers
- Installing a printer
- Identifying Video Ports and Connectors
- Connecting speakers to a computer
- Connecting a keyboard, mouse, and monitor to a computer
- Extending monitor displays
- Identifying Function Keys of a Keyboard
- Disabling a touchpad
- Connecting a pen drive to the USB port
- Defining Operating System Functions
- Creating a standard user account
- Identifying Hot Keys



- Analyzing programs using Windows Defender
- Identifying extensions
- Exploring help options
- Turning on automatic updates
- Installing MBSA
- Installing Microsoft Office 2010 in Windows 7
- Using TeamViewer to connect two computers
- Configuring Windows Update Services
- Disabling the Games feature
- Creating and deleting a Windows Firewall rule
- Installing Windows 7 Upgrade Advisor
- Repairing a software
- Turning on Windows 7 firewall logs
- Understanding the ipconfig command
- Understanding routing protocols
- Configuring a SOHO router
- Changing passwords for the router
- Creating a homegroup
- Sharing a printer on the network
- Creating a virtual PC machine
- Sharing a folder
- Identifying client and server
- Turning on Airplane Mode of an iPhone
- Establishing a Bluetooth connection
- Connecting an iPhone to the Wi-Fi network
- Locking an iPhone with a Password
- Identifying types of viruses
- Identifying types of malware
- Understanding classification of viruses
- Starting the Print Spooler service
- Backing up a Windows security certificate and private key
- Creating a Password-Protected User Account
- Encrypting a picture
- Installing security software
- Examining certificate details

- Deleting the browsing history
- Viewing cookies and temporary files in IE
- Configuring pop-up blocker settings
- Modifying protected mode
- Uninstalling WinPatrol software
- Identifying Features of a Laptop and Tablet
- Allowing all devices and computers to have media access
- Changing the name of your media library
- Disabling certain applications and services at startup
- Rolling back to a restore point
- Restoring files from backup
- Analyzing network paths with tracert
- Understanding Troubleshooting Theory
- Backing up Music Library in Drive C
- Configuring a power plan

## Here's what you get



## 14. Live Labs

Live-Lab is a real computer equipment, networked together and conveniently accessible over the internet using virtualization. A live-lab has equipments such as a computer, server, switch or router in it that a user is free to configure.

The benefits of live-labs are:

- Exam based practical tasks

- Real equipment, absolutely no simulations
- Access to the latest industry technologies
- Available anytime, anywhere on any device
- Break and Reset functionality
- No hardware costs

## Lab Tasks

### Introduction

### Core Hardware Components

- Converting a decimal number to binary
- Assessing your computer's RAM and virtual memory
- Identifying a PCI-bus slot
- Identifying Slots of a Motherboard
- Identifying an AGP slot
- Identifying the Motherboard Form Factors
- Identifying a CPU slot
- Installing a processor and identifying motherboard components
- Installing SDRAM and DDR memory modules
- Identifying Types of RAM
- Installing a Motherboard, Processor, and Processor Fan
- Connecting the motherboard to the internal hard drive
- Supplying power to a SATA drive
- Identifying Video Card Components
- Installing PCIe Cards on the Motherboard
- Installing an SMPS and connecting it to the motherboard

## Peripherals and Connectors

- Inserting Ink Cartridges into a Printer
- Identifying desktop PC ports
- Identifying printers
- Installing a printer
- Identifying Video Ports and Connectors
- Connecting speakers to a computer
- Connecting a keyboard, mouse, and monitor to a computer
- Extending monitor displays
- Identifying Function Keys of a Keyboard
- Disabling a touchpad
- Connecting a pen drive to the USB port

## Operating Systems

- Defining Operating System Functions
- Creating a standard user account
- Identifying Hot Keys

## Software Applications

- Analyzing programs using Windows Defender
- Identifying extensions
- Exploring help options
- Turning on automatic updates
- Installing MBSA
- Installing Microsoft Office 2010 in Windows 7
- Using TeamViewer to connect two computers
- Configuring Windows Update Services
- Disabling the Games feature
- Creating and deleting a Windows Firewall rule
- Installing Windows 7 Upgrade Advisor
- Repairing a software
- Turning on Windows 7 firewall logs

### **Networking Technologies and Wireless Routers**

- Understanding the ipconfig command
- Understanding routing protocols
- Configuring a SOHO router
- Changing passwords for the router

### **Network Sharing and Storage**

- Creating a homegroup
- Sharing a printer on the network
- Creating a virtual PC machine
- Sharing a folder
- Identifying client and server

### **Mobile Devices**

- Turning on Airplane Mode of an iPhone
- Establishing a Bluetooth connection
- Connecting an iPhone to the Wi-Fi network
- Locking an iPhone with a Password

### **Security Threats**

- Identifying types of viruses
- Identifying types of malware
- Understanding classification of viruses

### **Security Best Practices**

- Starting the Print Spooler service
- Backing up a Windows security certificate and private key
- Creating a Password-Protected User Account
- Encrypting a picture
- Installing security software
- Examining certificate details
- Deleting the browsing history
- Viewing cookies and temporary files in IE
- Configuring pop-up blocker settings
- Modifying protected mode

### **Buying and Configuring a Workstation**

- Uninstalling WinPatrol software
- Identifying Features of a Laptop and Tablet
- Allowing all devices and computers to have media access
- Changing the name of your media library

### **Computer Support and Backups**

- Disabling certain applications and services at startup
- Rolling back to a restore point
- Restoring files from backup
- Analyzing network paths with tracert
- Understanding Troubleshooting Theory
- Backing up Music Library in Drive C

### Environmental and Safety Concepts

- Configuring a power plan

### Appendix

## Here's what you get



## 15. Post-Assessment

After completion of the uCertify course Post-Assessments are given to students and often used in conjunction with a Pre-Assessment to measure their achievement and the effectiveness of the exam.

Have Any Query? We Are Happy To Help!

### GET IN TOUCH:

 Contact No

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 [www.uCertify.com](http://www.uCertify.com)