uCertify

Course Outline

CompTIA Tech (FC0-U71) Exam Preparation

04 Aug 2025

1. Pre-Assessment
2. Exercises, Quizzes, Flashcards & Glossary

   Number of Questions
3. Expert Instructor-Led Training
4. ADA Compliant & JAWS Compatible Platform
5. State of the Art Educator Tools
6. Award Winning Learning Platform (LMS)
7. Chapter & Lessons

   Syllabus

   Chapter 1: Introduction

   Chapter 2: Core Hardware Components

   Chapter 3: Peripherals and Connectors

   Chapter 4: Computing Devices and the Internet of Things

   Chapter 5: Operating Systems

   Chapter 6: Software Applications

   Chapter 7: Software Development

   Chapter 8: Database Fundamentals

   Chapter 9: Networking Concepts and Technologies

   Chapter 10: Cloud Computing and Artificial Intelligence

   Chapter 11: Security Concepts and Threats

   Chapter 12: Security Best Practices

   Chapter 13: Data Continuity and Computer Support

   Videos and How To
8. Practice Test

   Here's what you get

   Features
9. Live labs

   Lab Tasks

Here's what you get

10. Post-Assessment

1. 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.

2. 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.

3. Quiz

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.

4. 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.

5. 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.

6. 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.

7. 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.

8. 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 assessments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

9. 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 7 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

- **2019**
    1. Best Virtual Learning Solution
    2. Best Content Authoring Development or Curation Solution
    3. Best Higher Education Learning Management Solution (LMS)

- **2020**

1. Best College and Career Readiness Solution
2. Best Cross-Curricular Solution
3. Best Virtual Learning Solution

10. 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 Tech+ Certification?
- Exam Objectives

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

Chapter 3: Peripherals and Connectors

- Installing and Configuring Audio and Video Devices
- Understanding External Storage and Communications Connectors
- Understanding Input, Output, and Power Devices
- Understanding Installation Basics
- Summary
- Exam Essentials

Chapter 4: Computing Devices and the Internet of Things

- Exploring Larger Computing Devices
- Understanding the Internet of Things
- Summary
- Exam Essentials

Chapter 5: Operating Systems

- Operating System Fundamentals

- Managing an Operating System
- Summary
- Exam Essentials

Chapter 6: Software Applications

- Understanding Application Installation and Management
- Exploring Common Application Types
- Using Web Browsers
- Summary
- Exam Essentials

Chapter 7: Software Development

- Exploring Programming Languages
- Understanding Programming Concepts and Techniques
- Summary
- Exam Essentials

Chapter 8: Database Fundamentals

- Understanding Databases

- Summary
- Exam Essentials

Chapter 9: Networking Concepts and Technologies

- Exploring Connection Types and Features
- Understanding Network Connectivity Essentials
- Setting Up a Small Wireless Network
- Summary
- Exam Essentials

Chapter 10: Cloud Computing and Artificial Intelligence

- Understanding Virtualization and Cloud Computing
- Exploring Artificial Intelligence
- Summary
- Exam Essentials

Chapter 11: Security Concepts and Threats

- Understanding Hackers and Motives
- Understanding Security Threats

- Understanding Access Control
- Summary
- Exam Essentials

Chapter 12: Security Best Practices

- Understanding Security Best Practices
- Summary
- Exam Essentials

Chapter 13: Data Continuity and Computer Support

- Understanding Data Continuity
- Exploring Computer Support Concepts
- Summary
- Exam Essentials

Videos and How To

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

44	06:01
VIDEOS	HOURS

11. Practice Test

Here's what you get

47	2	71
PRE-ASSESSMENTS QUESTIONS	FULL LENGTH TESTS	POST-ASSESSMENTS QUESTIONS

Features

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.

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.

12. Live Labs

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

Core Hardware Components

- Troubleshooting the Audio System
- Replacing the Internal HDD
- Connecting to a Cable Modem
- Replacing the SMPS

Peripherals and Connectors

- Connecting a Desktop
- Connecting an External Speaker and Headphones
- Configuring a Network Adapter
- Connecting an SD Card
- Connecting an External Hard Disk
- Adding a Keyboard Layout
- Protecting the Computer Using a UPS
- Installing a Printer
- Configuring the Mouse Settings

- Sharing a Printer
- Connecting a Wireless Mouse
- Connecting a Printer to a Laptop via Bluetooth

Computing Devices and the Internet of Things

- Connecting an iPhone to WiFi
- Connecting a Docking Station
- Replacing a Laptop Battery
- Connecting an iPhone to a Laptop via Bluetooth
- Implementing Physical Security

Operating Systems

- Using Basic Linux Commands
- Finding Files in Linux
- Manipulating Files in Linux
- Creating New User Account
- Configuring UAC Settings
- Managing NTFS Permissions
- Working with the Task Manager
- Creating a Shortcut
- Running Commands on Windows PowerShell
- Creating a Linux User and Group
- Running the Disk Cleanup
- Compressing and Decompressing a File in Linux
- Creating a Volume
- Using the Task Scheduler
- Propagating Permissions
- Configuring a Default Domain Password Policy

Software Applications

- Setting Automatic Windows Updates
- Configuring a Firewall
- Formatting a Text to Bold in Word

- Inserting a Table in PowerPoint
- Creating a Simple Chart in Excel
- Detecting Rootkits
- Configuring the Edge Pop-Up Blocker
- Setting the Default Browser

Software Development

- Creating Functions in Java
- Creating an HTML Script
- Creating an array
- Using the if-else Statement
- Using the while Loop
- Using the for Loop
- Calling the Nested Function

Database Fundamentals

- Using the DELETE Statement
- Using the CREATE TABLE Statement
- Using the INSERT INTO Statement
- Using the SELECT Statement

Networking Concepts and Technologies

- Connecting to a DSL Network
- Connecting to an Ethernet Network
- Creating a Demilitarized Zone
- Configuring a DHCP Server
- Creating a Home Wireless Network
- Connecting a Laptop to a Television
- Configuring a Router

Cloud Computing and Artificial Intelligence

- Creating a Virtual Machine

Security Concepts and Threats

- Analyzing Malware
- Conducting an IP Spoofing Attack
- Simulating a DoS Attack

Security Best Practices

- Performing a Quick Scan
- Understanding Symmetric Encryption
- Configuring a VPN Connection
- Cracking Passwords Using Cain and Abel

Data Continuity and Computer Support

- Restoring Files
- Creating a Local Backup

Here's what you get

73	63	01:11
LIVE LABS	VIDEO TUTORIALS	HOURS

13. 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.

You can’t stay away! Get in touch with our team to