

CompTIA Tech+ (Exam FC0-U71), Videos & Skill Labs Set

Course Specifications

Course Number: ACI77-005VL_rev1.0

Video and Lab Length: Approximately 21 hours, 23 minutes

Course Introduction

CompTIA Tech+ is designed to validate foundational IT knowledge for advanced end users and early-career professionals entering the tech field. It provides a broad understanding of essential IT concepts—from computing and infrastructure to software, data, development, and security—making it an ideal starting point for those exploring or transitioning into a technology-focused role. This course prepares you for the CompTIA Tech+ (FC0-U71) certification exam, offering comprehensive coverage of key topics and hands-on scenarios that reflect real-world IT environments. The course is structured around six core domains: IT Concepts and Terminology Infrastructure Applications and Software Development Concepts Data and Database Fundamentals Security and Troubleshooting as a standalone section at the end. Whether you're a student, career changer, or upskilling professional, this course provides the clarity, confidence, and practical knowledge to help you take the first step toward a successful career in technology.

Video Enhanced Learning

(4h 23m * 8 Modules * 37 Episodes)

We've enhanced select lab sets with targeted video content to strengthen student readiness and improve lab success. With focused video learning, students get reinforcement of core concepts before they enter the lab, giving them the confidence and context needed to apply skills effectively. Support diverse learning styles, improve lab readiness, and drive stronger outcomes across today's most in-demand skills.

Video Topics

1. Overview
2. Notational Systems
3. Input, Processing, Output, and Storage
4. Computer Operating Systems
5. The Brain of the Computer - CPUs, SoCs, and Device Types
6. Networking Foundations: LANs, WANs, and TCP/IP
7. Network Firewalls, Protocols, and Common Ports

Course Outline

8. Wired Peripheral Devices
9. Wireless Peripheral Devices
10. Display Devices and Video Interfaces
11. Exploring Internal Hardware
12. External Storage and Network-Enabled Peripheral Devices
13. Storage Hardware
14. Data Backup Strategies
15. Setting Up a SOHO Wireless Router
16. Securing and Configuring a SOHO Wireless Network
17. Wired and Wireless Connection Types
18. Internet Connection and Service Types
19. Software Usage Requirements
20. Core Office Tools and Delivery Models
21. Business and Productivity Software: AI, Virtualization, and Cloud Technologies
22. Collaboration Software
23. Web Browser Settings
24. Artificial Intelligence
25. Foundations of Code, Data Types, and Functions
26. Foundations of Programming: Data Types, Logic, and IDEs
27. Python for IT Support: Automation and Troubleshooting
28. Introduction to Databases
29. Using Databases
30. Database Table Design
31. Basic Security Principles
32. Securing Devices and Security Best Practices
33. Password Best Practices
34. Common Use Cases for Encryption
35. Securing Wireless Networks
36. Troubleshooting Methodology
37. Troubleshooting Methodology: Action and Documentation

Skill Labs

(17h * 17 Labs)

A **skills lab** is a guided, hands-on learning environment that allows students to practice real-world tasks in a safe, virtual setting. Instead of simply reading or watching videos, learners actively do the work—navigating realistic scenarios, applying concepts, troubleshooting issues, and building confidence through practical experience. This ensures that theory becomes usable skill. Skill labs are essential for developing true workplace readiness because they mirror real systems, tools, and challenges, helping learners bridge the gap between knowledge and performance. By completing a skills lab, students gain the hands-on competence employers expect and are better prepared for both assessments and real job responsibilities.

Skill Labs Topics

1. Managing Units of Measure—Disks, Network Throughput, and Processor (FC0-U71)
2. Installation of Peripheral Devices (FC0-U71)
3. Introduction to Virtualization and Cloud Technologies (FC0-U71)
4. Basic Networking Concepts (FC0-U71)
5. Filesystem Management and Operating System Utilities (FC0-U71)
6. Compare Different Operating Systems and Functionalities (FC0-U71)
7. Management of Business and Productivity Software (FC0-U71)
8. Web Browser Configuration and Settings Part 1 (FC0-U71)
9. Web Browser Configuration and Settings Part 2 (FC0-U71)
10. Common Uses of Artificial Intelligence (FC0-U71)
11. Software Programming Fundamentals (FC0-U71)
12. Python Programming Fundamentals (FC0-U71)
13. Introduction to Database Concepts (FC0-U71)
14. Securing and Administering Databases (FC0-U71)
15. Securing Workstations (FC0-U71)
16. Implementing Password Policies (FC0-U71)
17. Introduction to Encryption (FC0-U71)