

uCertify

Course Outline

CompTIA A (220-1101)



22 Apr 2026

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: Motherboards, Processors, and Memory
Chapter 3: Expansion Cards, Storage Devices, and Power Supplies
Chapter 4: Peripherals, Cables, and Connectors
Chapter 5: Printers and Multifunction Devices
Chapter 6: Networking Fundamentals
Chapter 7: Introduction to TCP/IP
Chapter 8: Wireless and SOHO Networks
Chapter 9: Network Services, Virtualization, and Cloud Computing
Chapter 10: Laptop and Mobile Device Hardware
Chapter 11: Mobile Connectivity and Application Support
Chapter 12: Troubleshooting Methodology and Resolving Core Hardware Problems
Chapter 13: Hardware and Network Troubleshooting
Chapter 14: Appendix A: 3D Objects
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.

409
EXERCISES

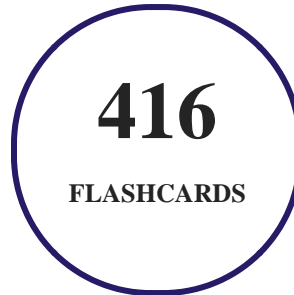
3. Quiz

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.

240
QUIZ

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 A+ Certification?
- The CompTIA A+ Exam Objectives
- A+ Certification Exam Objectives: 220-1101
- Objective Map

Chapter 2: Motherboards, Processors, and Memory

- Understanding Motherboards

- Understanding Processors
- Understanding Memory
- Understanding Cooling Systems
- Summary
- Exam Essentials

Chapter 3: Expansion Cards, Storage Devices, and Power Supplies

- Installing and Configuring Expansion Cards
- Understanding Storage Devices
- Understanding Power Supplies
- Summary
- Exam Essentials

Chapter 4: Peripherals, Cables, and Connectors

- Understanding Cables and Connectors
- Understanding Cables and Connectors
- Summary
- Exam Essentials

Chapter 5: Printers and Multifunction Devices

- Understanding Print Technologies and Imaging Processes
- Installing and Maintaining Printers
- Summary
- Exam Essentials

Chapter 6: Networking Fundamentals

- Understanding Networking Principles
- Identifying Common Network Hardware
- Summary
- Exam Essentials

Chapter 7: Introduction to TCP/IP

- Understanding TCP/IP
- Understanding Virtual Networks
- Summary
- Exam Essentials

Chapter 8: Wireless and SOHO Networks

- Understanding Wireless Networking Technologies
- Installing and Configuring SOHO Networks
- Summary
- Exam Essentials

Chapter 9: Network Services, Virtualization, and Cloud Computing

- Understanding Network Services
- Understanding Virtualization and Cloud Computing
- Summary
- Exam Essentials

Chapter 10: Laptop and Mobile Device Hardware

- Working with Laptop and Mobile Device Hardware
- Summary
- Exam Essentials

Chapter 11: Mobile Connectivity and Application Support

- Understanding Mobile Connectivity
- Understanding Mobile App Support

- Summary
- Exam Essentials

Chapter 12: Troubleshooting Methodology and Resolving Core Hardware Problems

- Using the Troubleshooting Best Practice Methodology
- Troubleshooting Motherboards, CPUs, RAM, and Power Problems
- Summary
- Exam Essentials

Chapter 13: Hardware and Network Troubleshooting

- Troubleshooting Storage Drives and RAID Arrays
- Troubleshooting Video, Projector, and Display Issues
- Troubleshooting Common Mobile Device Issues
- Troubleshooting Printer Problems
- Troubleshooting Networking Problems
- Summary
- Exam Essentials

Chapter 14: Appendix A: 3D Objects

Videos and How To

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

122

VIDEOS

18:29

HOURS

11. Practice Test

Here's what you get

91

PRE-ASSESSMENTS
QUESTIONS

2

FULL LENGTH TESTS

100

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

Motherboards, Processors, and Memory

- Identifying a PCI Bus Slot
- Installing a Riser Cable and Graphics Card on a Motherboard
- Installing a CR 2032 CMOS Battery on a Motherboard
- Installing Motherboard Components
- Accessing the BIOS Setup in Windows 10
- Setting Up a Boot Device Priority
- Installing an i7 Processor on a Motherboard
- Enabling Hardware Virtualization

- Working with the Task Manager
- Viewing the Processor Information
- Installing Memory Modules on a Motherboard
- Installing DDR5 RAM on a Motherboard
- Verifying the RAM Usage
- Installing a CPU Fan on a Motherboard

Expansion Cards, Storage Devices, and Power Supplies

- Connecting a NIC on a Motherboard
- Inserting a USB Flash Drive into a Laptop
- Installing an Expansion Card on a Motherboard
- Connecting a PCIe Gaming Sound Card
- Configuring NIC Teaming
- Removing an Internal Storage Device from a Laptop
- Installing an Internal Storage Device
- Creating a Swap Partition
- Replacing the Power Supply
- Connecting a Computer to a Power Source
- Connecting the ATX, ATX12V, and EPS12V Connectors on a Motherboard

Peripherals, Cables, and Connectors

- Connecting a USB Type A to C Cable to a Computer
- Installing Input and Output Devices
- Installing a Printer
- Configuring the Mouse Settings
- Adding a Keyboard Layout
- Connecting a VGA Connector to its Port

Printers and Multifunction Devices

- Inserting Ink Cartridges in an Inkjet Printer
- Connecting a USB Printer

Networking Fundamentals

- Connecting a New Workstation to the Internet
- Connecting a Router to the Laptop
- Configuring Port Security on an Access Port
- Configuring a Router
- Enabling a Device Driver
- Disabling a Device Driver

Introduction to TCP/IP

- Configuring Network Address Translation
- Understanding the IPv4 Header
- Configuring an IPv6 Address
- Configuring a DHCP Server
- Creating a VLAN and Viewing its Assignment to Port Mapping
- Establishing a VPN Connection

Wireless and SOHO Networks

- Configuring a SOHO Network - Packet Tracer Lab
- Configuring an IPv4 Address and a DNS Server
- Creating a Dial-up Connection

Network Services, Virtualization, and Cloud Computing

- Scanning a Network Interface Using Wireshark

Laptop and Mobile Device Hardware

- Removing Speakers from the Laptop
- Removing the Wireless NIC
- Removing a Laptop Keyboard
- Replacing an M.2 SSD from a Laptop
- Removing the Display Assembly of a Laptop
- Installing a Laptop Heatsink Fan
- Removing the CPU Heat Sink
- Removing an Internal Laptop Battery

- Replacing a CMOS Battery
- Replacing Laptop Memory

Mobile Connectivity and Application Support

- Enabling ActiveSync in iOS
- Connecting an Android Phone to a Wi-Fi Network
- Connecting an iPhone to a Wi-Fi Network
- Disabling Cellular Data in Android
- Configuring a Mobile Hotspot
- Setting Up a VPN in Android
- Disabling Mobile Data on an iPhone
- Pairing an iPhone with a Vehicle's Sound System
- Configuring Location Services in iOS
- Configuring an Email Account on an iPhone
- Email Account Configuration in Android

Hardware and Network Troubleshooting

- Configuring the Screen Resolution Setting
- Configuring a Power Plan

Here's what you get

72

LIVE LABS

72

VIDEO TUTORIALS

58

MINUTES

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

 3187 Independence Drive
Livermore, CA 94551,
United States



+1-415-763-6300



support@ucertify.com



www.ucertify.com