uCertify

Course Outline

CompTIA A+ (220-1001)

02 May 2024

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

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

   Chapter 1: Introduction

   Chapter 2: Motherboards, Processors, and Memory

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

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Here's what you get

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Here's what you get

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1. Course Objective

Get certified for the CompTIA A+ certification exam with CompTIA A+ (220-1001) course and lab. The lab is cloud-based, device-enabled, and can easily be integrated with an LMS. CompTIA A+ 220-1001 study guide provides complete coverage of the CompTIA A+ exam objectives and helps you learn how to install and support Windows OS including command line & client support, troubleshoot device and network issues, and so on.

2. Pre-Assessment

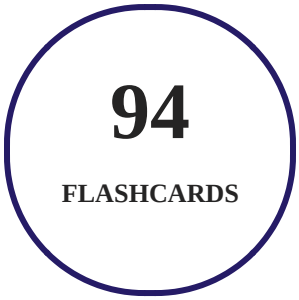
Pre-Assessment lets you identify the areas for improvement before you start your prep. It determines what students know about a topic before it is taught and identifies areas for improvement with question assessment before beginning the course.

3. 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.

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?
- What Does This Course Cover?
- The CompTIA A+ Exam Objectives
- A+ Certification Exam Objectives: 220-1001

Chapter 2: Motherboards, Processors, and Memory

- Understanding Motherboards
- Understanding Processors

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

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

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

Chapter 4: Peripherals and Connectors

- Understanding Cables and Connectors
- Understanding Uses of Peripheral Devices
- Summary
- Exam Essentials

Chapter 5: Custom PC Configurations

- Exploring Custom Configurations
- Thin Clients
- Summary
- Exam Essentials

Chapter 6: Installing and Configuring Printers

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

Chapter 7: Networking Fundamentals

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

Chapter 8: Introduction to TCP/IP

- Understanding TCP/IP

- Summary
- Exam Essentials

Chapter 9: Installing Wireless and SOHO Networks

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

Chapter 10: Network Services, Virtualization, and Cloud Computing

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

Chapter 11: Understanding Laptops

- Working with Laptops
- Input Devices
- Internal Expansion

- Laptop Displays
- External Peripherals
- Summary
- Exam Essentials

Chapter 12: Understanding Mobile Devices

- Understanding Mobile Devices
- Summary
- Exam Essentials

Chapter 13: Mobile Device Connectivity and Synchronization

- Understanding Network Connectivity and Email
- Configuring Mobile Device Synchronization
- Summary
- Exam Essentials

Chapter 14: Troubleshooting Methodology and Resolving Core Hardware Problems

- Using the Troubleshooting Best Practice Methodology
- Troubleshooting Core Hardware Issues

- Summary
- Exam Essentials

Chapter 15: Hardware and Network Troubleshooting

- Troubleshooting Storage and Video Problems
- Troubleshooting Common Mobile Device Issues
- Troubleshooting Printer Problems
- Troubleshooting Networking Problems
- Summary
- Exam Essentials

Chapter 16: 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.

45	15:24
VIDEOS	HOURS

11. Practice Test

Here's what you get

90	3	114
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

Motherboards, Processors, and Memory

- Installing a PCI Sound Card
- Identifying a PCI-Bus Slot
- Assembling Computer Components
- Installing Motherboard Components
- Providing Cooling and Ventilation to a Motherboard
- Identifying a CPU Socket
- Installing a processor
- Enabling Hardware Virtualization
- Accessing BIOS Setup in Windows 10
- Viewing the Processor Information
- Disabling a Device Driver
- Enabling a Device Driver
- Setting Up a Boot Device Priority
- Verifying RAM Usage
- Installing Memory Modules

Internal Expansion, Storage Devices, and Power Supplies

- Installing a USB 3.0 PCI Express Card (2.0 x4)
- Installing an Optical Drive and a PCI Sound Card
- Installing Firewire Cards
- Installing Expansion Cards on a Motherboard
- Installing a NIC

- Creating a Swap Partition
- Connecting the Motherboard to the Internal Hard Drive
- Inserting a CD on a Laptop
- Copying Files to a Disc Using File Explorer
- Inserting a Pen Drive into the USB Port
- Removing a Pen Drive from a Computer
- Installing SMPS and Connecting it to the Motherboard
- Replacing the Power Supply
- Replacing the Battery of a Smartphone and Inserting a Memory Card

Peripherals and Connectors

- Supplying Power to a SATA Drive
- Connecting a USB Printer to a Computer
- Connecting the Hub with Different Devices Using USB Cables
- Adding a Keyboard Layout
- Configuring Mouse Settings
- Connecting Speakers to a Computer

Installing and Configuring Printers

- Inserting Ink Cartridges into a Printer
- Installing a Printer

Networking Fundamentals

- Configuring a Router
- Configuring Port Security on an Access Port
- Examining an Intrusion Detection Policy
- Connecting Systems to the Internet Through a Firewall Router
- Connecting a Router to the Laptop
- Connecting the Cable Modem to Access Internet

Installing Wireless and SOHO Networks

- Configuring SSH in a Router

Network Services, Virtualization, and Cloud Computing

- Configuring VLANs
- Configuring an IPv4 address
- Configuring an IPv6 address
- Installing a DHCP Server
- Assigning Different Classes of IP Address
- Connecting a Workstation to the LAN and Configuring IPv4 Properties
- Scanning using Wireshark
- Using OneDrive
- Configuring OneDrive
- Installing Ubuntu
- Installing Windows 10

Understanding Laptops

- Installing Laptop Components

Mobile Device Connectivity and Synchronization

- Removing an Account in Android
- Configuring an Email in Android
- Viewing the iOS Version of an iPhone
- Setting Up a VPN in Android
- Turning on Airplane Mode of an iPhone

Hardware and Network Troubleshooting

- Configuring the Screen Resolution Setting
- Changing the Resolution Setting
- Configuring a Power Plan

Here's what you get

64	61	01:18
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.

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