

# uCertify

## Course Outline

**CompTIA A+ Core 1 (220-1201) and Core 2 (220-1202)**



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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: Laptop and Mobile Device Hardware

Chapter 6: Printers and Multifunction Devices

Chapter 7: Networking Fundamentals

Chapter 8: Introduction to TCP/IP

Chapter 9: Network Services

Chapter 10: Wireless and SOHO Networking

Chapter 11: Mobile Connectivity and Application Support

Chapter 12: Virtualization and Cloud Computing

Chapter 13: Core Hardware and Network Troubleshooting

Chapter 14: Mobile Device, Display, and Printer Troubleshooting

Chapter 15: Introduction

Chapter 16: Operating System Basics

Chapter 17: Windows Configuration

Chapter 18: Windows Administration

Chapter 19: Working with macOS and Linux

Chapter 20: Security Concepts

Chapter 21: Securing Operating Systems

Chapter 22: Troubleshooting Operating Systems and Security

Chapter 23: Scripting, Remote Access, and Artificial Intelligence

Chapter 24: Safety and Environmental Concerns

Chapter 25: Documentation and Professionalism

Videos and How To

## 8. Practice Test

Here's what you get

Features

## 9. Performance Based labs

Lab Tasks

Here's what you get

# 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. 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.

### 5. 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.

## 6. 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.

## 7. 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

## 8. 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 CompTIA A+ Certification?
- What Does This Course Cover?
- The CompTIA A+ Exam Objectives for Core 1 220-1201

## 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 Peripheral Devices
- Understanding Cables and Connectors
- Summary
- Exam Essentials

## Chapter 5: Laptop and Mobile Device Hardware

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

## Chapter 6: Printers and Multifunction Devices

- 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
- Understanding Virtual Networks
- Summary
- Exam Essentials

## Chapter 9: Network Services

- Understanding Network Services
- Summary
- Exam Essentials

## Chapter 10: Wireless and SOHO Networking

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

## Chapter 11: Mobile Connectivity and Application Support

- Understanding Mobile Connectivity
- Understanding Mobile App Support
- Summary
- Exam Essentials

## Chapter 12: Virtualization and Cloud Computing

- Understanding Virtualization
- Understanding Cloud Computing
- Summary
- Exam Essentials

## Chapter 13: Core Hardware and Network Troubleshooting

- Understanding Troubleshooting Best Practices

- Troubleshooting Motherboards, RAM, CPUs, and Power Problems
- Troubleshooting Drives and RAID Arrays
- Troubleshooting Networking Problems
- Summary
- Exam Essentials

## Chapter 14: Mobile Device, Display, and Printer Troubleshooting

- Troubleshooting Video, Projector, and Display Issues
- Troubleshooting Common Mobile Device Issues
- Troubleshooting Printer Issues
- Summary
- Exam Essentials

## Chapter 15: Introduction

- What Is CompTIA A+ Certification?
- What Does This Course Cover?
- The CompTIA A+ Exam Objectives

## Chapter 16: Operating System Basics

- Understanding Operating Systems
- Understanding Applications
- Introduction to Windows
- Preparing for the Exam
- Summary
- Exam Essentials

## Chapter 17: Windows Configuration

- Interacting with Operating Systems
- The Windows Registry
- Disk Management
- Summary
- Exam Essentials

## Chapter 18: Windows Administration

- Installing and Upgrading Windows
- Command-Line Tools
- Networking in Windows
- Summary

- Exam Essentials

## Chapter 19: Working with macOS and Linux

- macOS and Linux
- Applications on macOS
- macOS Components
- macOS System Folders
- Best Practices
- Linux Administration
- Summary
- Exam Essentials

## Chapter 20: Security Concepts

- Physical Security Concepts
- Physical Security for Staff
- Logical Security
- Malware
- Mitigating Software Threats

- Social Engineering Attacks, Threats, and Vulnerabilities
- Common Security Threats
- Exploits and Vulnerabilities
- Security Best Practices
- Destruction and Disposal Methods
- Summary
- Exam Essentials

## Chapter 21: Securing Operating Systems

- Working with Windows OS Security Settings
- Web Browser Security
- Securing a SOHO Network (Wireless)
- Securing a SOHO Network (Wired)
- Mobile Device Security
- Summary
- Exam Essentials

## Chapter 22: Troubleshooting Operating Systems and Security

- Troubleshooting Common Microsoft Windows OS Problems

- Troubleshooting Security Issues
- Best Practices for Malware Removal
- Troubleshooting Mobile OS Issues
- Troubleshooting Mobile Security Issues
- Summary
- Exam Essentials

## Chapter 23: Scripting, Remote Access, and Artificial Intelligence

- Scripting
- Remote Access
- Artificial Intelligence
- Summary
- Exam Essentials

## Chapter 24: Safety and Environmental Concerns

- Understanding Safety Procedures
- Understanding Environmental Controls
- Understanding Policies, Licensing, and Privacy

- Summary
- Exam Essentials

## Chapter 25: Documentation and Professionalism

- Documentation and Support
- Change Management Best Practices
- Backup and Recovery
- Demonstrating Professionalism
- Summary
- Exam Essentials

## 9. Practice Test

### Here's what you get

### 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.

## 10. 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

### Here's what you get

You can't stay away! Get in touch with our team to [www.uCertify.com](http://www.uCertify.com)