

CompTIA A+ 220-1102 Exam Prep 2026

CompTIA A+ 220-1102 2026. Windows OS, security threats, and mobile device troubleshooting.

[IT Certifications](#) Instructor: Brian Taylor • 5 sections • 47 lessons • 14.50h total

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About this course

Preparing for the CompTIA A+ certification can feel overwhelming with the volume of topics. This course cuts through the noise to give you a focused, practical study path for the 220-1102 exam, targeting the key domains for 2026. We skip the fluff and concentrate on real troubleshooting and configuration skills.

You will learn how to tackle Windows OS installations, manage security threats, and troubleshoot mobile devices. We walk through step-by-step guides, analyze real case studies, and provide practical problem-solving sessions.

Course curriculum

Foundations and Exam Strategy

- **How the 220-1102 Exam Is Structured (12m)**
Understand the exam format, question types, and scoring so you know exactly what to expect on test day.
- **Setting Up Your Virtual Lab Environment (22m)**
A step-by-step guide to creating a safe practice environment for hands-on OS and security tasks.
- **Key Terminology for Operating Systems (15m)**
Learn the essential vocabulary you'll encounter in questions about Windows, macOS, and Linux.
- **Core Security Concepts to Review (18m)**
A quick refresher on authentication, authorization, and essential security principles.
- **Understanding Troubleshooting Theory (14m)**
We break down the CompTIA troubleshooting model into a practical, easy-to-remember flow.
- **Common Exam Pitfalls and How to Avoid Them (9m)**
A problem-solving session on tricky wording, 'best answer' questions, and time management.
- **Your 30-Day Study Plan (8m)**
A downloadable template to structure your final review period before the exam.
- **Where to Find Practice Questions (11m)**
We discuss reliable sources for practice tests and how to use them effectively without just memorizing answers.

Operating Systems Deep Dive

- **Windows 10 vs. Windows 11: Key Differences (25m)**
A real case study analysis of the features and settings you need to know for both OS versions.
- **the Windows Command Line (28m)**
Learn essential commands for networking, file management, and system diagnostics.
- **Configuring Windows Control Panel & Settings App (21m)**
Step-by-step guide to navigating and configuring core system options.
- **Windows Networking Configuration and Troubleshooting (32m)**
Hands-on session for setting up connections and fixing common network issues.
- **macOS and Linux Features for the Exam (19m)**
Focus on the specific commands and features from Apple and Linux environments that are on the test.
- **Managing Users, Groups, and Permissions (26m)**
A practical walkthrough of setting up secure access on a multi-user system.
- **Using Remote Access Technologies (17m)**
Learn how RDP, SSH, and other tools work and how to troubleshoot them.
- **System Performance and Troubleshooting Tools (24m)**
We'll show you how to use built-in utilities to diagnose and fix performance problems.

- Windows Update and Patch Management (13m)

A clear explanation of how to manage updates and resolve common installation errors.

Security Fundamentals and Threats

- Identifying Common Malware Types (20m)

A visual guide to viruses, ransomware, trojans, and how they attack systems.

- How Phishing and Social Engineering Work (16m)

Real-world examples of attacks that target users, not just technology.

- Setting Up Secure Wireless Networks (18m)

Step-by-step guide to configuring WPA3, guest networks, and router security settings.

- Using Antivirus, Firewalls, and Endpoint Protection (22m)

A practical comparison of security tools and how to configure them for maximum protection.

- Understanding Data Encryption and Protection (15m)

We explain BitLocker, FileVault, and other methods to keep data safe.

- Securing Mobile Devices: Policies and Tools (23m)

Learn about BYOD, MDM, and how to lock down smartphones and tablets.

- Password Best Practices and Multi-Factor Authentication (12m)

A problem-solving session on creating strong credentials and implementing MFA.

- Disaster Recovery and Backup Strategies (25m)

A real case study on creating a simple backup plan for a small business.

Advanced Troubleshooting Scenarios

- Troubleshooting Common Printer Problems (29m)

From paper jams to driver issues, we walk through the top printer fixes.

- Fixing Display and Video Issues (14m)

A step-by-step guide to diagnosing problems with monitors, GPUs, and cables.

- Solving Mobile Device Connectivity Issues (19m)

Real-world cases for fixing Wi-Fi, Bluetooth, and cellular data problems on phones.

- Resolving OS Installation and Boot Failures (27m)

We tackle the dreaded blue screen, boot loops, and failed updates head-on.

- Troubleshooting Security Access and Permissions (17m)

A practical session on what to do when a user can't access a file or application.

- Addressing Slow Performance and Resource Issues (24m)

Learn how to identify resource hogs and optimize a sluggish computer.

- Scripting Basics for Repetitive Tasks (12m)

An introduction to simple scripts that can automate common help desk fixes.

- Final Mock Exam: Troubleshooting Section (35m)

Test your skills with a timed set of performance-based questions.

- Reviewing Your Mock Exam Results (18m)

We analyze common mistakes and show you how to improve your score.

Operational Procedures and Final Prep

- **Communication for IT Support (11m)**
Tips and scripts for talking to non-technical users and managing expectations.
- **Documentation and Ticketing Best Practices (16m)**
Learn why good notes are critical and how to write clear, concise tickets.
- **Safety Procedures for IT Environments (13m)**
A practical guide to ESD safety, proper cable management, and physical security.
- **Understanding Licensing and Software Policies (10m)**
We cover the basics of software licenses, EULAs, and compliance.
- **Data Privacy and Regulatory Compliance (GDPR, HIPAA) (21m)**
A real case study on handling sensitive data according to common regulations.
- **Policies: Acceptable Use and Password Security (15m)**
How to create and enforce basic IT policies in a small office.
- **Asset Management and Chain of Custody (12m)**
A step-by-step guide to tracking hardware and data disposition.
- **Basic Scripting for Automation: A Deeper Look (26m)**
We build a simple script to automate a common system configuration task.
- **Working with Remote Support Tools (19m)**
A hands-on review of popular remote desktop software and its security features.
- **Your Final Full-Length Practice Exam (40m)**
Simulate the full exam experience with a comprehensive test covering all domains.
- **Final Review: Key Topics to Remember (18m)**
A high-level summary of the most critical concepts and commands for the 220-1102.
- **Exam Day Checklist and Next Steps (9m)**
What to do before, during, and after your exam, plus how to leverage your A+ certification.
- **Course Wrap-Up and Continued Learning (7m)**
A brief summary of the course and where to go for more advanced IT topics.

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