

# CompTIA A+ Core 2 (220-1202)

Prepare for the CompTIA A+ Core 2 (220-1202) V15 exam with expert-led training, unlimited practice exams, and virtual labs. Build real-world IT support skills across Windows 11, macOS, Linux, Android, and iOS, with expanded focus on OS management, cloud productivity tools, file systems (ReFS, XFS), UEFI/TPM, hybrid deployments, and command-line utilities like whoami and sfc. CompTIA A+ is the industry standard for a reason. This course dives into Zero Trust security, passwordless authentication, MDM, DLP, EPP/EDR, and protection against email-based threats and fileless malware. You'll also cover software troubleshooting, ticketing systems, and operational best practices. Prepare to sit the 220-1202 exam with confidence and level up your IT career.

[CBT Nuggets course material](#) →

## WEEK 1

### Mobile Operating Systems

iOS  
iPadOS  
Validation

### Workstation Operating Systems: ChromeOS and Linux

Overview of Workstation OSs  
ChromeOS Essentials  
ChromeOS Apps  
ChromeOS Security  
ChromeOS Demo  
Linux  
Linux Demo  
Validation

### Workstation Operating Systems: macOS and Windows

macOS Overview  
macOS Hardware  
macOS UI Navigation  
Windows  
End-of-Life (EOL) and Update Limitations  
Compatibility Concerns Between OS  
Various File System Types  
Validation

### OS Installation Methods

Boot Installation with Local Media

Internet Boot

Network Boot and WDS

Internal Hard Drive, Multiboot

Feature Updates and Produce Life Cycle

Validation

## **Installation Types**

Clean Install

Upgrade Install

Upgrade Paths

Migration Methods

Zero-Touch and Light-Touch Installations

MBR and GPT Disks

Third-Party Drivers

Validation

## **Windows Editions and Recovery**

Compare and Contrast Windows Editions

Windows N Versions

Refresh or Reset a PC

Recovery Partition and Recovery Drive

Validation

## **Task Manager, MMC, Performance Monitor**

Task Manager Processes

Task Manager Blades

Microsoft Management Console (MMC)

Performance Monitor

Validation

## **Additional Windows MMC and Administrative Tools**

Task Scheduler

Event Viewer

Disk Management

Device Manager

Local Users and Groups

## **WEEK 2**

Validation

## **Additional Windows Tools**

System Information (msinfo32.exe)

Resource Monitor (resmon.exe)

System Configuration (msconfig.exe)

Disk Cleanup (cleanmgr.exe)

Disk Defragment (dfrgui.exe)

Registry Editor (regedit.exe)

Validation

## **Microsoft Command-Line Tools: Disk & File**

How to Use and Manage CMD

Folder Navigation

Directory Management

Tree Management

Disk Management

Validation

## Microsoft Command-Line: Identification and Policy

Gather Information  
Group Policy Update  
Group Policy Result

### WEEK 3

Validation

## Microsoft Command-Line: Network Tools

IPConfig  
Ping, Netstat, and NSlookup  
Net Use  
Tracert  
Pathping  
Validation

## Configure Windows Settings: Part 1

Internet Options  
Devices and Printers  
Programs and Features  
System App  
User Accounts  
Mail  
Validation

## Configure Windows Settings: Part 2

Sound Settings  
Indexing  
Accessibility

Time and Language

### WEEK 4

Personalization, Privacy, Gaming  
File Explorer Options  
Power Options  
Validation

## Windows Networking: IP, Workgroup, Domain

Internet Protocol (IP) Addressing Scheme  
Configure a Windows Client  
Configure IP for a Windows Client  
Workgroup Accounts and Resources  
Domain Accounts and Resource  
Domain Join Demo  
Validation

## Networking: Shares and VPN Connections

Share and Permissions Overview  
File Servers and Mapped Drives  
Shared Printers  
Virtual Private Network (VPN)  
Wireless Network Connections  
Validation

### WEEK 5

## **Networking: WWAN/Cellular, Proxy, Firewall**

Public vs Private Network Profiles

Proxy Settings

Understanding Ports

Local OS Firewall Settings

Advanced Firewall Settings

Validation

## **macOS Overview and Features**

macOS

macOS Productivity and Creativity

macOS Security and Privacy

Why NOT macOS?

Navigate macOS Features

Validation

## **macOS Preferences**

System Preferences

System Preferences

System Settings

## **WEEK 6**

System Preferences

System Preferences

Continuity

Validation

## **Disk Management, Terminal, System Folders**

FileVault Encryption

Disk Utility

Terminal

Force Quit

System Folders

Validation

## **Applications, iCloud, Apple ID, Best Practices**

Application File Types

Installing Applications

Uninstall Applications

iCloud

Apple ID and Corporate Restrictions

Best Practices

Validation

## **Linux Features and Tools**

Linux OS Components

Root vs Typical User Account

Using su or sudo to Elevate Privilege

Linux Configuration Files and Nano

Package Management

Validation

## **WEEK 7**

## **More Linux Features and Tools**

Informational Tools

Filesystem Management

File Management

File Management

Network Commands

Validation

## **Install Applications**

System Requirements for Applications

System Requirements

System Requirements

System Requirements

Distribution Methods

Hardware Tokens

Validation

## **Cloud-Based Productivity Tools**

What is the Cloud?

On-Premises Challenges

Email Servers in the Cloud

Email in the Cloud Demo

Cloud Storage Overview

Cloud Storage Demo

Collaboration Tools

Validation

## **Physical Security and Access**

Perimeter Security

Building Security

Entry Point Security

Physical Access Security

Biometrics

Validation

## **Logical Security**

Least Privilege and Zero Trust

Just in Time and Privilege Access Management

Additional Security Tools and MDM

Validation

## **Security: Antivirus, Accounts, UAC**

Defender Antivirus

Microsoft Defender Demo

Local vs Microsoft Account

Types of Local Accounts

Run As Administrator vs Standard User, UAC

Validation

## **Login Options, Share and NTFS Permissions**

Login Options

Share and NTFS Permissions Overview

Share and NTFS Permissions Demo

Validation

## **Understand Encryption and Active Directory**

Encrypting File System (EFS)

EFS In Action!

BitLocker and BitLocker to Go Overview

BitLocker and BitLocker to Go Demo

Active Directory Overview

Active Directory Demos

Validation

## **Wireless Security and Authentication**

Wi-Fi Overview and Hardware

Early Wi-Fi Protocols

Security Protocol

Security Protocol

Encryption Protocol

Passwords, TACACS+, and RADIUS

Validation

## **Malware Types and Detection**

Types of Malware Part 1

Types of Malware Part 2

Drive-By Malware

Detect Malware

Validation

## **Malware Tools, Methods, and Removal**

Endpoint Detection and Response (EDR)

Managed and Extended Detection and Response (MDR/XDR)

Email Security Gateway

User Education

Recovery

Validation

## **Social Engineering, Data Destruction and Disposal**

Phishing

Additional Social Engineering Attacks

Drive Data Destruction and Disposal

Physical Destruction

Digital Destruction

Validation

## **Threats and Vulnerabilities**

DoS, DDoS, and Evil Twin

Zero-Day and Spoofing

On-Path, Brute-Force, and Dictionary Attacks

Insider Threat, SQL Injection, Cross-Site Scripting (XSS)

Business Email Compromise and Supply Chain/Pipeline

Compliance, Patching, EOL, BYOD

Validation

## **Workstation Security and Hardening**

Encryption Review and VeraCrypt

Password Considerations and Use

NIST Recommendations

Password Managers

Account Management

Validation

## **Secure Mobile Devices**

Device Encryption

Screen Locks

Configuration Profiles

## **WEEK 8**

Patch Management

Endpoint Security Software

Validation

### **Configure Wi-Fi Networks**

Router Settings

Firmware and Filtering

Configure Guest Access

Screened Subnet

Physical Security

Firewall Settings

Validation

### **Browser Security Settings**

Trusted and Untrusted Sources

Browser Patching

Extensions and Plug-Ins

Checking Site Security

Privacy and Security Settings

Validation

### **Troubleshoot Windows OS: Tools and Guidelines**

Overall Guidelines

Common Troubleshooting Tools Walk-Through

Restore Points and WinRE

PC and Mobile Security

Validation

### **Troubleshoot Windows (and Mobile): Part 1**

Blue Screen of Death (BSOD)

Degraded Performance

Boot Issues, No OS Found

Frequent Shutdowns

Mobile OS / App Issues

Validation

### **Troubleshoot Windows: Part 2**

Services Not Starting

Application Crashes

Low Memory

USB Controller Resource

Slow Profile Load

Time Drift

Validation

### **Documentation and Support Systems**

Introduction

Ticketing Systems

Asset Management

Types of Documentation

Validation

### **Change Management & Environmental Impacts**

Introduction

Elements of Change Management

The Change Management Process

Environmental Impacts

Environmental Controls

Power

Validation

### **Backup Part 1**

Importance of Backup

Backup Methods

Onsite vs. Offsite

Backup Rotation Schemes

Validation

### **Backup Part 2 and Safety Procedures**

Backup Types

In-Place or Alternative Restore

Backup and Restore Demo

Electrostatic Discharge (ESD) and Electrical Safety

Component Handling and Antistatic Bags

Cable Management

Regulations and Heavy Equipment

Fire, Goggles, and Masks

Validation

### **Incident Response, Privacy and Remote Access**

Introduction

Prohibited Activities & Incident Response

Licensing

Regulated Data

Remote Access

Validation

### **Scripting Basics and AI Concepts**

Introduction

Basics of Scripting - Variables

Basics of Scripting - Comments, Loops and Branch Logic

Scripting Languages

Use Cases and Considerations For Scripting

Basic Concepts of Artificial Intelligence (AI)

Validation

### **Communication and Professionalism**

Importance

Appearance and Attire

Hygiene

Words Matter

Listening, Patience, and Attitude

Cultural Sensitivity, Timeliness, Working Space, Distractions

Difficult Customers

Handling User Info and Follow-Up

Validation