

# **CompTIA A+ (5 day) Outline (Exams 220-901 and 220-902)**

## 1 - Hardware Fundamentals

Topic A: Personal Computer Components

Topic B: Storage Devices

Topic C: Mobile Digital Devices

Topic D: Connection Interfaces

## 2 - Operating System Fundamentals

Topic A: PC and Mobile Operating Systems

Topic B: PC Operating System Tools and Utilities

## 3 - Networking & Security Fundamentals

Topic A: Network Types

Topic B: Network Components

Topic C: Common Network Services

Topic D: Cloud Concepts

Topic E: Security Fundamentals

## 4 - Safety & Operational Procedures

Topic A: Basic Maintenance Tools and Techniques

Topic B: Personal and Electrical Safety

Topic C: Environmental Safety and Materials Handling

Topic D: Professionalism and Communication

Topic E: Organizational Policies and Procedures

Topic F: Troubleshooting Theory

## 5 - Supporting Display Devices

Topic A: Install Display Devices

Topic B: Configure Display Devices

Topic C: Troubleshoot Video and Display Devices

## 6 - Installing & Configuring Peripheral Components

Topic A: Install and Configure Input Devices

Topic B: Install and Configure Output Devices

Topic C: Install and Configure Input/Output Devices

Topic D: Install and Configure Expansion Cards

## 7 - Managing System Components

Topic A: Identify Motherboard Components and Features

Topic B: Install and Configure CPUs and Cooling Systems

Topic C: Install Power Supplies

Topic D: Troubleshoot System Components

## 8 - Managing Data Storage

Topic A: Identify RAM Types and Features

Topic B: Troubleshoot RAM Issues

Topic C: Install and Configure Storage Devices

Topic D: Configure the System Firmware

Topic E: Troubleshoot Hard Drives and RAID Arrays

## 9 - Installing & Configuring Microsoft Windows

Topic A: Implement Client-Side Virtualization

Topic B: Install Microsoft Windows

Topic C: Use Microsoft Windows

Topic D: Configure Microsoft Windows

Topic E: Upgrade Microsoft Windows

## 10 - Optimizing & Maintaining Microsoft Windows

Topic A: Optimize Microsoft Windows

Topic B: Back Up and Restore System Data

Topic C: Perform Disk Maintenance

Topic D: Update Software

## 11 - Working with Other Operating Systems

Topic A: The OS X Operating System

Topic B: The Linux Operating System

## 12 - Customized Client Environments

Topic A: Types of Common Business Clients

Topic B: Custom Client Environments

## 13 - Networking Technologies

Topic A: TCP/IP Properties and Characteristics

Topic B: TCP/IP

Topic C: Internet Connections

Topic D: Ports and Protocols

Topic E: Networking Tools

## 14 - Installing & Configuring Networking Capabilities

Topic A: Configure Basic Windows Networking

Topic B: Configure Network Perimeters

Topic C: Using Windows Networking Features

Topic D: Install and Configure SOHO Networks

## 15 - Supporting Mobile Digital Devices

Topic A: Install and Configure Exterior Laptop Components

Topic B: Install and Configure Interior Laptop Components

Topic C: Other Mobile Devices

Topic D: Mobile Device Accessories and Ports

Topic E: Mobile Device Connectivity

Topic F: Mobile Device Synchronization

Topic G: Troubleshoot Mobile Device Hardware

## 16 - Supporting Printers & Multifunction Devices

Topic A: Printer and Multifunction Technologies

Topic B: Install and Configure Printers

Topic C: Maintain Printers

Topic D: Troubleshoot Printers

## 17 - Security Threats, Vulnerabilities, and Controls

Topic A: Common Security Threats and Vulnerabilities

Topic B: General Security Controls

Topic C: Mobile Security Controls

Topic D: Data Destruction and Disposal  
Methods

18 - Implementing Security Controls

Topic A: Secure Operating Systems

Topic B: Secure Workstations

Topic C: Secure SOHO Networks

Topic D: Secure Mobile Devices

19 - Troubleshooting System-Wide Issues

Topic A: Troubleshoot PC Operating Systems

Topic B: Troubleshoot Mobile Device Operating  
Systems and Applications

Topic C: Troubleshoot Wired and Wireless  
Networks

Topic D: Troubleshoot Common Security Issues