



CompTIA A+

Core Series

STUDY PLAN

USBUUCA 1AAD

Introduction to Personal Computer

1. Tools of the Trade
2. How the computer works?
3. Demo – External Computer Connections
4. Demo – Inside The Personal Computer
5. Common computing hardware

USBUUCA 2AAD

Motherboards, CPUs, RAM and Expansion Slots

1. Motherboard and Expansion Slots
2. Demo – Installing Motherboards
3. Demo – Installing Expansion Cards
4. The Central Processing Unit (CPU)
5. Random Access memory (RAM)
6. Demo – Installing CPU and RAM Memory
7. Modern CPUs

USBUUCA 3AAD

Storage Devices, Display Technology and Peripherals

1. Hard Drive Overview
2. Solid-State Drives Overview
3. Connecting Mass Storage
4. What is RAID?
5. Media Storage Devices

6. Display Technology
7. Essential Peripherals – Common Ports
8. Essential Peripherals – Common Peripherals

USBUUCA 4AAD

Power Supplies, Printers, Firmware, and Mobile Devices

1. Power Supplies
2. Demo – Installing and Maintaining Power Supplies
3. Printers and Multifunction devices
4. BIOS & UEFI Overview
5. Demo – Setting Up BIOS & UEFI
6. Laptops Hardware Overview
7. Mobile Device Overview
8. Demo – Install and configure laptop hardware and components
9. Demo – Using Mobile Devices

USBUUCA 5AAD

Operating Systems

1. Microsoft Windows Operating System
2. Demo – Performing a Clean Installation of Windows 10
3. Demo – Navigating the Windows 7 Interface
4. Demo – Navigating the Windows 8.1 Interface
5. Demo – Navigating the Windows 10 Desktop
6. Demo – Managing Files and Folders in Windows
7. Demo – Using the Control Panel in Windows
8. Demo – Using the Settings App in Windows 10
9. Demo – Drivers and Updates

USBUUCA 6AAD

Operating Systems

1. Demo – Working with Services
2. Demo – Managing Users and Groups in Windows
3. Demo Sharing Files, Folders, and NTFS Permissions
4. Demo – Exploring the Command-Line Interface in Windows
5. Demo – Download Windows 10
6. Demo – Create Bootable Windows 10 USB
7. Demo – Navigating the Windows 10 Tablet Interfaces
8. Demo – Working with Task Manager
9. Demo – Disk Management
10. Demo – Windows Storage Spaces
11. Demo – Installing and Removing Applications

USBUUCA 7AAD

Networking Fundamentals

1. Networking Overview
2. Networking hardware devices
3. Network cables and connectors
4. Wireless networking protocols
5. Services provided by networked hosts
6. Network configuration concepts
7. Use appropriate networking tools
8. TCP and UDP ports, protocols, and their purposes
9. Demo – UTP Cable Pinouts

USBUUCA 8AAD

Security Fundamentals

1. Physical security measures
2. Logical security concepts
3. Wireless security protocols and authentication
4. Malware removal and prevention
5. Social engineering threats and vulnerabilities
6. Security best practices to secure a workstation
7. Securing mobile devices
8. Data destruction and disposal

USBUUCA 9AAD

Virtualization and Cloud Computing

1. Virtualization Basics
2. Demo – create a virtual machine using VirtualBox
3. Cloud Computing Overview
4. Installing Hyper-V in Windows

USBUUCA 10AAD

Operational Procedures

1. Troubleshooting Theory
2. Best Practices and Documentation
3. Change Management
4. Disaster Prevention and Recovery
5. Explain Common Safety Procedures
6. Environmental Impacts and Appropriate Controls

7. Addressing Prohibited Content or Activity
8. Communication Techniques and Professionalism
9. Remote Access Technologies