CompTIA A+ Certification Online Course - Lab Tasks & Videos

Learn the real world skills using Live Labs. These performance based Labs are used to supplement training and simulate real-world, hardware, software & command line interface environments. There are 2 sets of Labs included. One for each A+ Certification exam. There are 103 Performance Based Labs and 41 Video Tutorials in total. You can find a full list of contents below.

Features of Performance 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

Students will receive the following Labs:

- Installing motherboard components
- Installing a PCI sound card
- Identifying a PCI-bus slot
- Assembling computer components
- Providing cooling and ventilation to a motherboard
- Identifying a CPU socket
- Installing a processor
- Replacing the power supply
- Installing SMPS and connecting it to the motherboard
- Replacing the battery of a smartphone and inserting a memory card
- Enabling a Device Driver
- Disabling a Device Driver
- Setting up a boot device priority
- Enabling hardware virtualization
- Accessing BIOS Setup in Windows 10
- Viewing Processor Information
- Verifying a RAM Usage
- Installing memory modules
- Installing an optical drive and PCI sound card
- Installing a USB 3.0 PCI Express card (2.0 x4)
- Supplying power to a SATA drive
- Installing firewire cards
- Installing expansion cards on a motherboard
- Installing a NIC
- Connecting a USB printer to a computer
- Connecting the hub with different devices using USB cables
- Connecting the motherboard to the internal hard drive
- Inserting a CD in a laptop
- Copying files to a disc using File Explorer
- Inserting a pen drive into the USB port
- Removing a pen drive from a computer
- Adding a Keyboard Layout
- Configuring Mouse Settings
- Connecting speakers to a computer
- Configuring a Power Plan
- Configuring Screen Resolution Setting
- Changing resolution setting
- Enabling BranchCache

- Encrypting File System (EFS)
- Displaying Windows Versions
- Adding an MMC snap-in
- Displaying Windows PowerShell snap-ins
- Creating a Restore Point
- Using Cortana
- Using Windows Event Viewer
- Using Basic Linux Commands
- Listing files/directories
- Verifying the working directory
- Listing files of the current directory
- Performing the text searches
- Managing NTFS Permissions
- Converting a FAT32 Partition to NTFS
- Disabling a service
- Configuring Computer Management Services
- Using cmd commands
- Using msconfig
- Using Task Manager to Start an Application
- Configuring Windows Defender Firewall
- Configuring VLANs
- Configuring a Router
- Configuring Port Security on Access Port
- Examining an Intrusion Detection Policy
- Connecting systems to the Internet through a firewall router
- Connecting a router to the laptop
- Connecting the cable modem to access internet
- Configuring an IPv4 address
- Configuring an IPv6 address
- Installing a DHCP Server
- Assigning different classes of IP address
- Connecting a workstation to the LAN and configuring IPv4 properties
- Scanning using Wireshark
- Sharing Folders
- Using the net Command
- Configuring a Proxy Server
- Tracing route using tracert
- Installing Ubuntu
- Installing Windows 10
- Installing laptop components
- Removing an account in Android
- Configuring email in Android
- Viewing the IMEI number
- Setting up a VPN in Android
- Turning on airplane mode of an iPhone
- Reviewing the Top 10 OWASP Attacks
- Conducting a Dos Attack using Smurf Attack
- Performing a MITM Attack
- Conducting IP Spoofing
- Using a Symmetric Encryption Algorithm
- Using an Assymetric Encryption Algorithm
- Configuring an Audit Group Policy
- Configuring an Account Password Policy
- Configuring Screensavers
- Creating a new user
- Securing User Accounts
- Using BitLocker

- Locking an iPhone with a password
- Performing Network Address Translation (NAT)
- Installing a Printer
- Inserting ink cartridges into a printer
- Backing up Files
- Restoring Files
- Setting up a surge protected computer system
- Using a UPS to power computer components and ensure network connectivity

Students will receive the following Video Tutorials:

- Installing motherboard components
- Installing a PCI sound card
- Identifying a PCI-bus slot
- Assembling computer components
- Installing a processor
- Replacing the power supply
- Installing SMPS and connecting it to the motherboard
- Replacing the battery of a smartphone and inserting a memory card
- Setting up a boot device priority
- Enabling hardware virtualization
- Accessing BIOS Setup in Windows 10
- Installing memory modules
- Installing an optical drive and PCI sound card
- Installing a USB 3.0 PCI Express card (2.0 x4)
- Supplying power to a SATA drive
- Installing firewire cards
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- Connecting the motherboard to the internal hard drive
- Inserting a CD in a laptop
- Copying files to a disc using File Explorer
- Inserting a pen drive into the USB port
- Removing a pen drive from a computer
- Connecting speakers to a computer
- Changing resolution setting
- Connecting systems to the Internet through a firewall router
- Connecting a router to the laptop
- Connecting the cable modem to access internet
- Connecting a workstation to the LAN and configuring IPv4 properties
- Installing laptop components
- Removing an account in Android
- Configuring email in Android
- Viewing the IMEI number
- Setting up a VPN in Android
- Turning on airplane mode of an iPhone
- Locking an iPhone with a password
- Inserting ink cartridges into a printer
- Setting up a surge protected computer system
- Using a UPS to power computer components and ensure network connectivity