

# Cisco Networking Academy

## CCNA

### Lab Equipment Requirements

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## Overview

This document provides information on the specific recommended Cisco hardware and accessories available to member Cisco Networking Academies through the Cisco Networking Academy equipment promotion incentive for delivery of Cisco CCNA curricula hands-on labs. Only the products and services specified in this document are eligible for the Cisco Networking Academy promotion incentive. Please work with the Cisco Reseller Partner of your choice to request pricing and order fulfillment through the promotion incentive. If your purchasing organization does not have a preferred Cisco Reseller Partner, please utilize the [Partner Locator](#) to identify Cisco Reseller Partners near you.

*Note: Cisco reserves the right to add, modify, change, improve, suspend or discontinue any product or promotion at any time without prior notice, liability or costs.*

## CCNA Equipment List

The products and services listed below have been mapped to the CCNA curricula for delivery of hands-on labs.

- For CCNA, the Cisco 8200L router should be ordered with Cisco DNA Advantage On-Prem DNA License.
- Any wireless router with WPA2 support may be chosen. No promotional incentive discount is available for the wireless router.

Additional information can be found in the [reference notes](#) section.

Recommended Minimum Equipment List			
Qty	Product Number	Description	Notes
2	C8200L-1N-4T	Cisco Catalyst 8200L with 1-NIM slot and 4x1G WAN ports router	1,2
2	DNA-P-T0-E-3Y	Cisco DNA Essentials On-Prem Lic 3Y - up to 25M (Aggr, 50M) <i>CONFIGURE THE DNA LICENSE WITH THE \$0.00 OPTION SUPPORT SW SVS-PDNA-ESS</i>	3
2	C1300-24T-4G	Catalyst 1300 24-port GE, 4x1G SFP	1, 2, 5
1	Wireless Router	Wireless router (generic brand) with WPA3 support. Note: Wireless router is required for course #2 - Switching, Routing, and Wireless Essentials (SRWE)	

## Optional/Alternate Products

The optional/alternate products below may be substituted as needed or if preferred. Optional products may be ordered if needed. Please keep in mind that Cisco devices no longer include console cables. Optional products can support labs with advanced service modules, unified communications features, or to support more complex topologies.

- DNA Subscription Licenses are required for the C9200 switch model.
- Inclusion of service products is not mandatory; ONLY 8x5xNBD services are eligible for the Cisco Networking Academy promotion incentive

Optional/Alternate Products			
Alternate Switching Product (Qty as needed)			
Qty	Product Number	Description	Notes
	C9200L-24T-4G-E	Catalyst 9200L 24-port data, 4 x 1G, Network Essentials license	4
	C9200L-DNA-E-24-3Y	C9200L Cisco DNA Essentials, 24-port, 3 Year Term license	6
Optional Routing Product			
	C8200-RM-19-1R	Cisco Catalyst 8200 Rack mount kit - 19" 1R	
	NIM-2T=	2-Port Serial WAN Interface card	
	CAB-SS-V35MT=	V.35 Cable, DTE Male to Smart Serial, 10 Feet	
	CAB-SS-V35FC=	V.35 Cable, DCE Female to Smart Serial, 10 Feet	
Console Cables			
	Product Number	Description	Notes
	CAB-CONSOLE-USB=	Console Cable 6ft with USB Type A and mini-USB Type B	2
	CAB-CONSOLE-RJ45=	Console Cable 6ft with RJ45 and DB9F	2
Optional Service Products			
	Product Number	Description	
	CON-SNT-C8200TL1	SNTC-8X5XNBD Cisco Catalyst 8200L with 1-NIM slot and 4x1G WAN ports	
	CON-SNT-C1300G4	SNTC-8X5XNBD Catalyst 1300 24-Port GE, 4X1G SFP	
	CON-SNT-C920L24T	SNTC-8X5XNBD Catalyst 9200L 24-port data, 4 x 1G, Net	
Optional Equipment for NETLAB+			
	NIM-16A=	16-Port Async Serial NIM	7
	CAB-ASYNC-8=	Async cable Octopus Cable for Async NIM	

Additional information can be found in the [reference notes](#) section

## Additional Lab Hardware and Software Required

The hardware and software below are required to access and deliver the curriculum.

Hardware		
Qty	Description	Notes
1	PC acting as an application server (MS Windows Server or Windows 10 or later)	
--	Desktop PCs acting as clients (MS Windows 10 or later) 1 per student	
--	Wireless LAN Adapters for the client PCs	
--	Ethernet cables and Serial Cables as required	

Every client PC will require installation of the software below:

Software		
Qty	Description	Notes
--	Packet Tracer v8.0 or higher	
--	Tera Term source SSH client software for lab PCs.	
--	Oracle VirtualBox, most recent version.	
--	Wireshark version 2.5 or higher.	
--	Open-source server software: For various services and protocols, such as Telnet, SSH, HTTP, DHCP, FTP, TFTP, etc.	

## Reference Notes

Note	Description
1	The Networking Academy - Image & Hardware Support Document lists the tested and supported IOS images for each hardware platform that provide expected and consistent results for the lab exercises. Routers and switches always ship with the latest IOS version and it may be necessary to move them to the tested and supported IOS image. The Networking Academy Maintenance program allows instructors to download the recommended IOS image at no cost. The Image & Hardware Support Document and information on signing up for Networking Academy Maintenance can be found in the Equipment Information section of netacad.com.
2	Console cables are not included with the purchase of new network devices and they have been added in the optional equipment section. Our recommendation is to purchase one console cable with each router or switch.
3	DNA subscription is required by Cisco for Catalyst 8200L to activate the network stack on the router. Minimum term is 3 years. Subscription renewal is not mandatory. <i>CONFIGURE THE DNA LICENSE WITH THE \$0.00 OPTION SUPPORT SW SVS-PDNA-ESS.</i>
4	Network Essentials License is not related to the Networking Essentials course. 9200L switches use two possible licenses: Advantage and Essentials. We use Network Essentials License in CCNA.
5	The Catalyst 1300 switch replaces the EoL/EoS C1000-24T-4G-L switch.
6	DNA subscription is required by Cisco for Catalyst 9000 series switches. Minimum term is 3 years. Subscription renewal is not mandatory.
7	NIM-16A= requires IOS-XE 16.3.1 or later.