



**Cisco Networking Academy
Lab Equipment Promotion Ordering Information
Revised March 10, 2017**

General information:

The intent of the Networking Academy promotion is to provide a vehicle for Cisco Networking academies around the world to purchase the recommended lab equipment required to deliver hands-on skills based assessment labs for Cisco Networking Academy curriculum at a preferred discount.

Only the specific equipment and associated services recommended by Cisco for delivery of Networking Academy curriculum is included in the promotion. See specific equipment lists in the Products & Services section of this document beginning on page 2.

Eligibility: All Networking Academy member institutions with a CCNA trained instructor actively teaching CCNA, CCNA Security, CCNP or Networking Essentials are eligible to participate in the Networking Academy equipment promotion.

How to order: Academy institutions should work with their local Cisco Reseller Partner of choice for equipment pricing information and order fulfillment. To locate a Cisco Partner/Reseller, please use the Partner Locator Tool Found here: <http://tools.cisco.com/WWChannels/LOCATR/openBasicSearch.do>
The following information should be provided to the chosen Cisco Partner in order to confirm eligibility and negotiate the most favorable pricing for the partner/reseller on behalf of the academy institution.

Academy Institution Name & ID#: Full Name of the Institution Purchasing the Equipment and Cisco Academy ID # as displayed in the Academy Locator (If not known, this information is the number displayed in parenthesis after the academy name/address information accessible through the Academy Locator url: <https://www.netacad.com/web/about-us/academy-locator>) *Please select the Name/ID search option.*

For assistance or questions regarding the Networking Academy Lab Equipment Fulfillment Promotion, please email: eem-academyapproval@cisco.com.

Product Order Quantity Limits: An academy is not permitted to order more than the total quantity indicated below per quarter:

- 10 CCNA bundles
- 10 CCNA Security bundles
- 4 CCNP bundles
- 10 Networking Essentials bundles
- 10 of each individual product (when not purchasing complete bundles)

If a request exceeds the maximum quantity limits indicated above, deal approval authorization from the NetAcad CSR Manager and/or NetAcad Regional Manager will be required.

PROMOTION ELIGIBLE PRODUCTS & SERVICES

Cisco reserves the right to modify or discontinue the Networking Academy™ Equipment Discount Program at any time without prior notice or liability. Only the promotion eligible products and services listed below are eligible for the Networking Academy promotional discount.

Please note part number substitutions required in Brazil and Russia where select locally manufactured product versions must be substituted for global product versions.

SERVICES PRODUCTS NOTE: DUE TO GLOBAL AVAILABILITY OF NETWORKING ACADEMY MAINTENANCE REGISTRATION SERVICE, ORDERING SERVICE PRODUCTS IS OPTIONAL UNLESS ACADEMIES REQUIRE HARDWARE REPLACEMENT SERVICE COVERAGE.

NETWORKING ACADEMY RECOMMENDS AND PROVIDES A PROMOTIONAL DISCOUNT FOR SNT LEVEL SERVICE PRODUCTS ONLY. PLEASE VERIFY THAT ALL SERVICES REGISTERED IN NETWORKING ACADEMY PROMOTIONAL DEALS ARE THE APPROPRIATE SERVICE LEVEL TO HELP ENSURE DEAL APPROVAL.

PARTNERS MAY NEED TO CHANGE THEIR CISCO COMMERCE SERVICES CONFIGURATION PROFILE SETTING FROM AUTO-DEFAULT TO MANUAL CONFIGURATION OF SERVICES.

Cisco reserves the right to add, modify, change, improve, suspend or discontinue any product or promotion at any time without prior notice nor liability or costs.

Last
Revised:
10MAR2017

Cisco Networking Academy	<h1>CCNA Routing & Switching Equipment List</h1>
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This equipment list supports the CCNA Routing & Switching curriculum.

Lab Equipment Requirements in this Spreadsheet

1. Standard Equipment List
2. Optional Products
3. Additional Lab Hardware and Software Required

1. Standard Equipment List

Qty	Product Number	Description	Notes
3	CISCO1941/K9	Cisco 1941 w/2 GE,2 EHWIC slots,256MB CF,512MB DRAM,IP Base	1, 2, 3, 4

3	HWIC-2T=	2-Port Serial WAN Interface Card (Note: WIC-2T and WIC-2A/S not supported in ISR G2 devices)	8
3	CAB-SS-V35MT=	V.35 Cable, DTE Male to Smart Serial, 10 Feet	
3	CAB-SS-V35FC=	V.35 Cable, DCE Female to Smart Serial, 10 Feet	
3	WS-C2960+24TC-L NOTE: IN BRAZIL- SUBSTITUTE WS- C2960+24TC-BR= NOTE: IN RUSSIA SUBSTITUTE WS- C2960R+24TC-L	Catalyst 2960 24 10/100 + 2 1000BT LAN Base Image	1, 2
2	Wireless Router	Wireless N-Router (b/g/n Wi-Fi) with Simultaneous Dual-Band, MIMO antenna array for expanded high speed coverage and reliability, 4 Gigabit Ethernet Ports, support for IPv6, WPA2 encryption and SPI Firewall, Quality of Service (QoS), Cisco Connect Software, and Cisco Connect Cloud. (Note: CCNA Routing & Switching version 6 does not require wireless router)	10

2. Optional Products

Console Cables

Qty	Product Number	Description	Notes
3	CAB-CONSOLE-USB=	Console Cable 6ft with USB Type A and mini-USB Type B	2
3	CAB-CONSOLE-RJ45=	Console Cable 6ft with RJ45 and DB9F	2

Service Products

Qty	Product Number	Description	
3	CON-SNT-1941	SNTC-8X5XNBD Cisco 1941 w/2 GE,Cisco 1941 w/2 GE,2 EHWIC slot	
3	CON-SNT-WSC296TC NOTE: IN BRAZIL SUBSTITUTE CON- SNT-WC24TCBR NOTE: IN RUSSIA SUBSTITUTE CON- SNT-WSC224TC	SNTC-8X5XNBD Catalyst 2960 24 10/100 + 2 1000BT LAN	

Router Options

3	CISCO1921/K9 NOTE: IN BRAZIL SUBSTITUTE CISCO1905BR/K9=	C1921 Modular Router, 2 GE, 2 EHWIC slots, 512DRAM, IP Base NOTE: IN BRAZIL SUBSTITUTE CISCO1905BR/K9=	
3	CON-SNT-1921 NOTE: IN BRAZIL SUBSTITUTE CON-SNT-CISC195R	SNTC-8X5XNBD C1921 Modular Router NOTE: IN BRAZIL SUBSTITUTE CON-SNT-CISC195R	
	OR		
3	ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	1,2
3	NIM-2T=	2-Port Serial WAN Interface card	7
3	CON-SNT-ISR4321K	SNTC-8X5XNBD Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	
Optional Equipment for NETLAB+			
	HWIC-8A=	8-Port Async HWIC	5,8
	HWIC-16A=	16-Port Async HWIC	5,8
	NIM-16A=	16-Port Async Serial NIM	7,9
	CAB-HD8-ASYNC=	High Density 8-port EIA-232 Async Cable	
	CAB-ASYNC-8=	Async cable Octopus Cable for Async NIM	7,9
	WS-C2960+48TC-L NOTE: IN RUSSIA SUBSTITUTE WS-C2960R+48TC-L	Catalyst 2960 Plus 48 10/100 + 2 T/SFP LAN Base	6
	CON-SNT-WSC2968C NOTE: IN RUSSIA SUBSTITUTE CON-SNT-WSC248CL	SNTC-8X5XNBD Catalyst 2960 Plus 48 10/100 + 2 T/SFP L	

3. Additional Lab Hardware and Software Required

Hardware		
Qty	Description	Notes
1	(optional) PC acting as an application server (MS Windows Server or Windows 7 or later)	
3	Desktop PCs acting as clients (MS Windows 7 or later)	
2	Wireless LAN Adapters for the client PCs	
	Ethernet cables and Serial Cables as required	
Software		
Qty	Description	Notes
3	Cisco Configuration Professional (CCP) 2.6	

3	Freeware SSH client for PCs (e.g. PuTTY)	
1	Freeware servers for lab support.	
1	WireShark	
1	(optional) Freeware server services for local support and lab enhancement	

NOTE 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 NetAcad Maintenance program allows instructors to download the recommended IOS image at no cost. The Image & Hardware Support Document and information on signing up for NetAcad Maintenance can be found in the Equipment Information section of netacad.com (Program Menu / Equipment Information / NetAcad Maintenance Folder).

NOTE 2: Console cables are no longer included with the purchase of new network devices (routers, etc.), so they have been added in the optional equipment section. Our recommendation is to purchase one CAB-CONSOLE-USB= cable with every ISR-G2 router and one CAB-CONSOLE-RJ45= cable with all other devices (switches and ASAs).

NOTE 3: The 1941 router does not support the Unified Communications Technology Package. Voice labs are only supported on the 2900 series routers (2901, 2911). There are no voice labs in the CCNA curricula; however, this could be an issue for academies that wish to use the devices to also teach a voice course as well as CCNA.

NOTE 4: Of the router models, only the 1921 and 4321 routers are a 1RU form factor. If rack space is a critical factor, the 1921 or the 4321 is the best choice as it takes half as much rack space as the 1941 or the 2911.

NOTE 5: HWIC-16A= is not supported on the 1900 series ISRs, the HWIC-8A= is supported.

NOTE 6: Recommended for institutions using NETLAB+ as a control switch

NOTE 7: Not supported by 1921, 1941 router

NOTE 8: Not supported by ISR 4321 router

NOTE 9: NIM-16A= requires IOS-XE 16.3.1 or later

NOTE 10: CCNA Routing & Switching version 6 does not require wireless router

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Revised:
10MAR2017

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CCNA Security 2.0 Lab Configurations

Lab Equipment Requirements in this Spreadsheet

1. Standard CCNA Security Equipment List
2. Optional Products
3. ASA Only List

1. STANDARD EQUIPMENT List

In order to be able to implement the topology that is used in the lab exercises of the CCNA Security course, academies require as a minimum the following equipment.

Qty	Product Number	Description	Notes
1	CISCO1941/K9	Cisco 1941 w/2 GE,2 EHWIC slots,256MB CF,512MB DRAM,IP Base	1, 2,3
2	CISCO1941-SEC/K9	Cisco 1941 with Security Technology Package License w/2 GE, 2 EHWIC slots, 256MB CF, 512MB DRAM, IP Base	1, 2
3	HWIC-2T=	2-Port Serial WAN Interface Card (Note: WIC-2T and WIC-2A/S not supported in ISR G2 devices)	8
3	CAB-SS-V35MT=	V.35 Cable, DTE Male to Smart Serial, 10 Feet	
3	CAB-SS-V35FC=	V.35 Cable, DCE Female to Smart Serial, 10 Feet	
3	WS-C2960+24TC-L NOTE: IN BRAZIL- SUBSTITUTE WS- C2960+24TC-BR= NOTE: IN RUSSIA SUBSTITUTE WS- C2960R+24TC-L	Catalyst 2960 Plus 24 10/100 + 2T/SFP LAN Base	1, 2, 6
1	ASA5505-BUN-K9 NOTE: IN RUSSIA SUBSTITUTE	Adaptive Security Appliance (ASA) Model 5505	1, 2

ASA5505-K8	
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2. Optional Products

Console Cables

Qty	Product Number	Description	Notes
3	CAB-CONSOLE-USB=	Console Cable 6ft with USB Type A and mini-USB Type B	2
4	CAB-CONSOLE-RJ45=	Console Cable 6ft with RJ45 and DB9F	2

Services

Qty	Product Number	Description	Notes
1	CON-SNT-1941	SNTC-8x5xNBD for 1941 Router	
2	CON-SNT-1941SEC	SNTC-8x5xNBD for 1941 Router with Security Technology Package License	
3	CON-SNT-WSC296TC NOTE: IN BRAZIL SUBSTITUTE CON-SNT-WC24TCBR NOTE: IN RUSSIA SUBSTITUTE CON-SNT-WSC224TC	SNTC-8X5XNBD Catalyst 2960 Plus 24 10/100 + 2T/SFP LA	
1	CON-SNT-AS5BUNK9 NOTE: IN RUSSIA SUBSTITUTE CON-SNT-AS5K8	SNTC-8X5XNBD ASA5505	

Router Options

Qty	Product Number	Description	Notes
1	CISCO1921/K9 NOTE: IN BRAZIL SUBSTITUTE CISCO1905BR/K9=	C1921 Modular Router, 2 GE, 2 EHWIC slots, 512DRAM, IP Base NOTE: IN BRAZIL SUBSTITUTE CISCO1905BR/K9=	
1	CON-SNT-1921 NOTE: IN BRAZIL SUBSTITUTE CON-SNT-CISC195R	SNTC-8X5XNBD C1921 Modular Router NOTE: IN BRAZIL SUBSTITUTE CON-SNT-CISC195R	
1	HWIC-2T=	2-Port Serial WAN Interface Card (Note: WIC-2T and WIC-2A/S not supported in ISR G2 devices)	8
2	NIM-2T=	2-Port Serial WAN Interface card	7
2	ISR4321-SEC/K9	Cisco ISR 4321 Sec bundle w/SEC license	1,2

2	CON-SNT-ISR4321S	SNTC-8X5XNBD Cisco ISR 4321 Sec bundle w/SEC license	
Optional Equipment for NETLAB+			
	HWIC-8A=	8-Port Async HWIC	
	HWIC-16A=	16-Port Async HWIC	4,8
	NIM-16A=	16-Port Async Serial NIM	8
	CAB-HD8-ASYNC=	High Density 8-port EIA-232 Async Cable	
	CAB-ASYNC-8=	Async cable Octopus Cable for Async NIM	7,9
	WS-C2960+48TC-L NOTE: IN RUSSIA SUBSTITUTE WS- C2960R+48TC-L	Catalyst 2960 Plus 48 10/100 + 2 T/SFP LAN Base	5
	CON-SNT-WSC2968C NOTE: IN RUSSIA SUBSTITUTE CON- SNT-WSC248CL	SNTC-8X5XNBD Catalyst 2960 Plus 48 10/100 + 2 T/SFP L	

3. ASA Only

For academies that are upgrading the CCNA Security v1.1 bundle to the CCNA Security v2.0 Bundle

Qty	Product Number	Description	Notes
1	ASA5505-BUN-K9 NOTE: IN RUSSIA SUBSTITUTE ASA5505-K8	ASA 5505 Appliance with SW, 10 Users, 8 ports, 3DES/AES NOTE: IN RUSSIA SUBSTITUTE ASA5505-K8	1, 2
1	CON-SNT-AS5BUNK9 NOTE: IN RUSSIA SUBSTITUTE CON- SNT-AS5K8	SNTC-8X5XNBD ASA5505-BUN-K9 NOTE: IN RUSSIA SUBSTITUTE CON-SNT-AS5K8	

NOTE 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 NetAcad Maintenance program allows instructors to download the recommended IOS image at no cost. The Image & Hardware Support Document and information on signing up for NetAcad Maintenance can be found in the Equipment Information section of netacad.com (Program Menu / Equipment Information / NetAcad Maintenance Folder)

NOTE 2: Console cables are no longer included with the purchase of new network devices (routers, etc.), so they have been added in the optional equipment section. Our recommendation is to purchase one CAB-CONSOLE-USB= cable with every ISR-G2 router and one CAB-CONSOLE-RJ45= cable with all other devices (switches and ASAs).

NOTE 3: Substituting 3 of the CISCO1941/K9 routers would be a lower cost option for academies registered for NetAcad Maintenance

NOTE 4: HWIC-16A= is not supported on the 1800 & 1900 series ISRs, the HWIC-8A= is supported.

NOTE 5: Recommended for institutions using NETLAB+ as a control switch

NOTE 6: The 2960 Plus switch replaces the EoL/EoS WS-C2960-24TT-L switch

NOTE 7: Not supported by 1921, 1941 router

NOTE 8: Not supported by ISR 4321 router

NOTE 9: NIM-16A= requires IOS-XE 16.3.1 or later

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10MAR2017

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CCNP 7.1 Lab Configurations

Lab Equipment Requirements in this Spreadsheet

1. Standard ROUTE Equipment List
2. Standard SWITCH Equipment List
3. Standard TSHOOT Equipment List
4. Optional Products

1. CCNP ROUTE Equipment List

Qty	Routing Products	Description	Notes
4	CISCO1941-SEC/K9	Cisco 1941 with Security Technology Package License	1, 2
5	HWIC-2T=	2-Port Serial WAN Interface Card (Note: WIC-2T and WIC-2A/S not supported in ISR G2 devices)	10
5	CAB-SS-V35MT=	V.35 Cable, DTE Male to Smart Serial, 10 Feet	
5	CAB-SS-V35FC=	V.35 Cable, DCE Female to Smart Serial, 10 Feet	
Qty	Switching Products	Description	
1	WS-C2960+24TC-L NOTE: IN BRAZIL- SUBSTITUTE WS- C2960+24TC-BR= NOTE: IN RUSSIA SUBSTITUTE WS- C2960R+24TC-L	Catalyst 2960 24 10/100 + 2 1000BT LAN Base Image	1, 2
Qty	Other Equipment	Description	
4		PCs acting as clients/servers	
3		Ethernet cables	
4		Ethernet cables (x-over)	

2. CCNP SWITCH Equipment List			
Qty	Switching Products	Description	Notes
2	WS-C3650-24TS-E	Cisco Catalyst 3650 24 Port Data 4x1G Uplink IP Services	1, 2, 3, 4
2	WS-C2960+24TC-L NOTE: IN BRAZIL- SUBSTITUTE WS- C2960+24TC-BR= NOTE: IN RUSSIA SUBSTITUTE WS- C2960R+24TC-L	Catalyst 2960 24 10/100 + 2 1000BT LAN Base Image	1, 2
Qty	Other Equipment	Description	
4		PCs acting as clients/servers	
4		Ethernet cables	
12		Ethernet cables (x-over)	

3. CCNP TSHOOT Equipment List			
Qty	Routing Products	Description	Notes
3	CISCO1941-SEC/K9	Cisco 1941 with Security Technology Package License	1, 2
3	HWIC-2T=	2-Port Serial WAN Interface Card <i>(Note: WIC-2T and WIC-2A/S not supported in ISR G2 devices)</i>	10
3	CAB-SS-V35MT=	V.35 Cable, DTE Male to Smart Serial, 10 Feet	
3	CAB-SS-V35FC=	V.35 Cable, DCE Female to Smart Serial, 10 Feet	
Qty	Switching Products	Description	
2	WS-C3650-24TS-E	Cisco Catalyst 3650 24 Port Data 4x1G Uplink IP Services	1, 2, 3, 4
2	WS-C2960+24TC-L NOTE: IN BRAZIL- SUBSTITUTE WS- C2960+24TC-BR= NOTE: IN RUSSIA SUBSTITUTE WS- C2960R+24TC-L	Catalyst 2960 24 10/100 + 2 1000BT LAN Base Image	1, 2
Qty	Other Equipment	Description	
3		PCs acting as clients/servers	
6		Ethernet cables	

3	Ethernet cables (x-over)	
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4. Optional Products			
Console Cables			
Qty	Product Number	Description	Notes
4	CAB-CONSOLE-USB=	Console Cable 6ft with USB Type A and mini-USB Type B	2
4	CAB-CONSOLE-RJ45=	Console Cable 6ft with RJ45 and DB9F	2
Switching Product			
1	WS-C3650-24PS-E	Cisco Catalyst 3650 24 Port PoE 4x1G Uplink IP Services	8
Service Products			
Qty	Product Number	Description	
	CON-SNT-1941SEC	SNTC-8X5XNBD Cisco 1941 w/2 GE,Cisco 1941 Security Bundle w/	
	CON-SNT-WSC296TC NOTE: IN BRAZIL SUBSTITUTE CON-SNT- WC24TCBR NOTE: IN RUSSIA SUBSTITUTE CON-SNT-WSC224TC	SNTC-8X5XNBD Catalyst 2960 24 10/100 + 2 1000BT LAN	
	CON-SNT-WS5024SE	SNTC-8X5XNBD Cisco Catalyst 3650 24 Port Data 4x1G Up	
	CON-SNTWS6524PS	SNTC-8X5XNBD Cisco Catalyst 3650 24 Port PoE 4x1G Upl	8
Optional Software			
	Product Number	Description	
	Cisco CCP 1.3	Cisco Configuration Professional (CCP) v1.3 (Cisco-config-pro-exp-k9-1_3-en.zip)	5
Router Upgrades			
	Product Number	Description	
	ISR4321-SEC/K9	Cisco ISR 4321 Sec bundle w/SEC license	
	NIM-2T=	2-Port Serial WAN Interface card	9
	CON-SNT-ISR4321S	SNTC-8X5XNBD Cisco ISR 4321 Sec bundle w/SEC license	
Optional Equipment for NETLAB+			
	HWIC-8A=	8-Port Async HWIC	6,10
	HWIC-16A=	16-Port Async HWIC	6,10
	NIM-16A=	16-Port Async Serial NIM	9,11
	CAB-HD8-ASYNC=	High Density 8-port EIA-232 Async Cable	

	CAB-ASYNC-8=	Async cable Octopus Cable for Async NIM	9,11
	WS-C2960+48TC-L NOTE: IN RUSSIA SUBSTITUTE WS- C2960R+48TC-L	Catalyst 2960 Plus 48 10/100 + 2 T/SFP LAN Base	7
	CON-SNT-WSC2968C NOTE: IN RUSSIA SUBSTITUTE CON-SNT- WSC248CL	SMBS 8X5XNBD Catalyst 2960 Plus 48 10/100 + 2 T/SFP L	

NOTE 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 NetAcad Maintenance program allows instructors to download the recommended IOS image at no cost. The Image & Hardware Support Document and information on signing up for NetAcad Maintenance can be found in the Equipment Information section of netacad.com (Program Menu / Equipment Information / NetAcad Maintenance Folder) .

NOTE 2: Console cables are no longer included with the purchase of new network devices (routers, etc.), so they have been added in the optional equipment section. Our recommendation is to purchase one CAB-CONSOLE-USB= cable with every ISR-G2 router and one CAB-CONSOLE-RJ45= cable with all other devices (switches and ASAs).

Note 3 - EMI switches like the 3560 specified here come with the required Advanced IP Services license. Standard image devices (aka SMI, IPB) require a license upgrade with part number CD-3560-EMI=. Used equipment purchased from a third party require a relicensing kit with part number LL-3560-EMI=. Once you have one of those licenses in place, you will be able to download the latest IP Services images for the device from the Cisco.com website using a valid service contract.

Note 4 - (only for Academies hosting a NDG NETLAB solution for other Academies) - Cisco WS-C3560V2-24PS switches ("V2" models) do not respond to a console break signal, regardless of "enable break" setting, and therefore do not work with NETLAB automation (reference Cisco bug CSCsv92241). NDG is working with Cisco to resolve the problem. Workarounds: use WS-C3560-24PS (non-"V2" version) switches if available, or turn off automation by using the Generic Console Device setting.

Note 5 - The orderable part number for the CCP software is ISR-CCP-CD. The image code is supplied for your reference. The images can be downloaded from the Cisco.com website if you have a valid service agreement or are enrolled in NetAcad Maintenance.

NOTE 6: HWIC-16A= is not supported on the 1900 series ISRs, the HWIC-8A= is supported.

NOTE 7: Recommended for institutions using NETLAB+ as a control switch

NOTE 8: PoE is referenced in the curriculum book but not used or referenced in the lab

NOTE 9: Not supported by 1921, 1941 router

NOTE 10: Not supported by ISR 4321 router

NOTE 11: NIM-16A= requires IOS-XE 16.3.1 or later

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Revised:
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Cisco Networking Academy	<h1>Networking Essentials Equipment List</h1>
This equipment list supports the Networking Essentials curriculum.	

Lab Equipment Requirements in this Spreadsheet

1. Standard Equipment List
2. Optional Products
3. Additional Lab Hardware and Software Required

1. Standard Equipment List

Qty	Product Number	Description	Notes
1	CISCO1941/K9	Cisco 1941 w/2 GE,2 EHWIC slots,256MB CF,512MB DRAM,IP Base	1, 2, 3, 4
1	WS-C2960+24TC-L NOTE: IN BRAZIL-SUBSTITUTE WS-C2960+24TC-BR= NOTE: IN RUSSIA SUBSTITUTE WS-C2960R+24TC-L	Catalyst 2960 24 10/100 + 2 1000BT LAN Base Image	1, 2
1	Wireless Router	Wireless N-Router (b/g/n Wi-Fi) with Simultaneous Dual-Band, MIMO antenna array for expanded high speed coverage and reliability, 4 Gigabit Ethernet Ports, support for IPv6, WPA2 encryption and SPI Firewall, Quality of Service (QoS).	

2. Optional Products

Console Cables			
Qty	Product Number	Description	Notes
1	CAB-CONSOLE-USB=	Console Cable 6ft with USB Type A and mini-USB Type B	2
1	CAB-CONSOLE-RJ45=	Console Cable 6ft with RJ45 and DB9F	2

Service Products			
Qty	Product Number	Description	
1	CON-SNT-1941	SNTC-8X5XNBD Cisco 1941 w/2 GE,Cisco 1941 w/2 GE,2 EHWIC slot	
1	CON-SNT-WSC296TC NOTE: IN BRAZIL SUBSTITUTE CON-SNT- WC24TCBR NOTE: IN RUSSIA SUBSTITUTE CON-SNT-WSC224TC	SNTC-8X5XNBD Catalyst 2960 24 10/100 + 2 1000BT LAN	
Router Options			
1	CISCO1921/K9 NOTE: IN BRAZIL SUBSTITUTE CISCO1905BR/K9=	C1921 Modular Router, 2 GE, 2 EHWIC slots, 512DRAM, IP Base NOTE: IN BRAZIL SUBSTITUTE CISCO1905BR/K9=	
1	CON-SNT-1921 NOTE: IN BRAZIL SUBSTITUTE CON-SNT-CISC195R	SNTC-8X5XNBD C1921 Modular Router NOTE: IN BRAZIL SUBSTITUTE CON-SNT-CISC195R	
	OR		
1	ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	1,2
1	CON-SNT-ISR4321K	SNTC-8X5XNBD Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	

3. Additional Lab Hardware and Software Required

Hardware			
Qty	Description		Notes
2	Desktop PCs (MS Windows 10 or later)		
2	Wireless LAN Adapters for the client PCs		
1	smartphone or tablet as a host device		
1	(optional) Ethernet cable tester		
	RJ-45 connectors		
	RJ-45 crimping tool		
	Wire cutter		
	Wire stripper		
	Ethernet cables and Serial Cables as required		
Software			
Qty	Description		Notes

2	Freeware Terminal client for PCs (e.g. PuTTY, Tera Term)	
1	(optional) Freeware server services for local support and lab enhancement	

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NOTE 3: The 1941 router does not support the Unified Communications Technology Package. Voice labs are only supported on the 2900 series routers (2901, 2911). There are no voice labs in the Networking Essentials; however, this could be an issue for academies that wish to use the devices to also teach a voice course as well as CCNA.

NOTE 4: Of the router models, only the 1921, 4321 routers are a 1RU form factor. If rack space is a critical factor, the 1921 or the 4321 is the best choice as it takes half as much rack space as the 1941 or the 2911.