

## Network Simulator Lab Study Plan

The [CCNA 640-802 Network Simulator](#) has 250 lab exercises, organized both by type (Skill Builder, Configuration Scenario, and Troubleshooting Scenario), and by major topic within each type. When using this product along with the [CCNA Official Exam Certification Library](#), the listing of labs in the Simulator does easily correlate to the chapters in the book. As such, it is difficult to know when to do each lab when also reading the books.© <sup>TM</sup>

This informal document lists a table that cross references book chapters of the ICND1 and ICND2 Official Certification Guides, compared to the labs in the Simulator. When using the books and simulator, you may want to read a chapter, and then do the labs related to that chapter as listed here.

### Network Simulator Lab Cross Reference to the ICND1 and ICND2 Exam

<b>Certification Guides .....</b>	<b>1</b>
<b>ICND1 Skill Builder Labs .....</b>	<b>1</b>
<b>ICND1 Configuration Scenario Labs .....</b>	<b>5</b>
<b>ICND1 Troubleshooting Scenario Labs .....</b>	<b>6</b>
<b>ICND2 Skill Builder Labs .....</b>	<b>7</b>
<b>ICND2 Configuration Scenarios .....</b>	<b>11</b>
<b>ICND2 Troubleshooting Scenarios .....</b>	<b>13</b>

## ICND1 Skill Builder Labs

Completion Date	After ICND1 Chapter...	Title
	8	Switch CLI Exec Mode
	8	Switch CLI Configuration Process I
	8	Switch CLI Configuration Process
	8	Setting Switch passwords
	9	Configuring Switch IP settings



	9	Interface settings I
	9	Interface Settings II
	9	Interface Settings III
	9	Switch Forwarding I
	9	Switch IP Connectivity I
	9	VLANs I
	9	VLANs II
	9	VLANs III
	9	Interface status I
	10	Interface status II
	10	Interface Status III
	10	Interface Status IV
	10	Switch Security I
	10	Switch Security II
	10	Switch Security III
	10	Switch Security IV
	13	Router CLI Exec Mode I
	13	Router CLI Exec Mode II
	13	Router CLI Configuration Process
	13	Setting Router passwords
	13	Configuring Router IP settings
	13	Configuring local usernames
	13	Configuring SSH
	13	Migrating to a new IOS image
	13	Setting the Configuration Register
	13	Comparing Configuration Files
	13	Ignoring the Startup-Config File
	13	Booting a New Router IOS
	13	terminal history I
	13	terminal history II



	13	Topology Analysis
	13	Configuring IP Addresses I
	13	Configuring IP Addresses II
	13	Configuring IP Addresses III
	13	Configuring IP Addresses IV
	14	Examining the IP Routing Table
	14	Connected Routes
	14	Static Routes I
	14	Static Routes II
	14	Static Routes III
	14	Static Routes IV
	14	Default Routes
	14	IP classless
	14	Subnet Zero I
	14	Subnet Zero II
	14	Loopback interfaces
	14	RIP Configuration I
	14	RIP Configuration II
	14	RIP configuration III
	14	RIP Configuration IV
	14	RIP Configuration V
	14	RIP Configuration VI
	14	PC IP Commands I
	14	PC IP Commands II
	14	PC IP Commands III
	15	Using and suspending Telnet connections
	15	Using debug
	15	Testing using pings with hostnames
	15	RIP Verification I
	15	RIP Verification II



	15	Configuring hostnames
	17	Serial Link Config I
	17	Serial Link Config II
	17	Serial Link Config III
	17	Serial Link Config IV
	17	Interface status V
	17	Interface status VI



# ICND1 Configuration Scenario Labs

Completion Date	After ICND1 Chapter...	Lab Title
	10	Switch Interfaces and Forwarding
	10	Switch IP Connectivity
	10	Switch Security I
	10	Configuring VLANs I
	13	The Initial Configuration Dialogue (Setup)
	13	New Job I
	13	Rebuild a Config
	13	SSH and Telnet
	14	Subnetting and Addressing I
	14	Subnetting and Addressing II
	14	Subnetting and Addressing III
	14	Static Routing I
	14	Static Routing II
	14	Default routes
	14	RIP-2 Configuration I
	14	RIP Configuration II
	14	RIP Autosummary
	14	IP and MAC Address Comparisons
	14	IP classless
	17	Serial link Config I



# ICND1 Troubleshooting Scenario Labs

Completion Date	After ICND1 Chapter...	Lab Title
	10	Switch Forwarding I
	10	Port Security
	15	Path Analysis I
	15	Network Discovery I
	15	Network Discovery II
	15	IP Addressing and Routing
	15	IP Routing I



# ICND2 Skill Builder Labs

Completion Dates...	After ICND2 Chapter...	Title
	1	VLAN Config I
	1	VLAN Config II
	1	VLAN Config III
	1	VLAN Config IV
	1	VLAN Config V
	1	VTP Config I
	1	VTP Config II
	1	VTP Config III
	1	VTP Config IV
	1	VTP Config V
	1	Trunking Config I
	1	Trunking Config II
	1	Trunking Config III
	1	Trunking Config IV
	2	STP Analysis I
	2	STP Analysis II
	2	STP Config I
	2	STP Config II
	2	STP Config III
	2	Etherchannel
	4	IP Addressing I
	4	IP Addressing II
	4	IP Addressing III
	4	traceroute I
	4	Default Route I
	4	Zero Subnet



	4	Switch IP address
	6	ACL I
	6	ACL II
	6	ACL III
	6	ACL IV
	6	ACL V
	6	ACL VI
	6	Named ACL I
	6	Named ACL II
	6	Named ACL III
	6	ACL Analysis I
	5	Autosummary
	5	Routing Analysis I
	6	Traceroute II
	10	EIGRP serial configuration I
	10	EIGRP serial configuration II
	10	EIGRP serial configuration III
	10	EIGRP serial configuration IV
	10	EIGRP serial configuration V
	10	EIGRP serial configuration VI
	10	EIGRP Frame Relay Configuration I
	10	EIGRP Frame Relay Configuration II
	10	EIGRP Frame Relay Configuration III
	10	EIGRP Authentication I
	10	EIGRP Authentication II
	10	EIGRP Route Tuning I
	10	EIGRP Route Tuning II
	10	EIGRP Route Tuning III
	10	EIGRP Route Tuning IV
	10	EIGRP Neighbors I



	11	EIGRP Neighbors II
	11	EIGRP Neighbors III
	9	OSPF serial configuration I
	9	OSPF serial configuration II
	9	OSPF serial configuration III
	9	OSPF serial configuration IV
	9	OSPF serial configuration V
	9	OSPF serial configuration VI
	9	OSPF Router ID I
	9	OSPF Router ID II
	9	OSPF Frame Relay Configuration I
	9	OSPF Frame Relay Configuration II
	9	OSPF Frame Relay Configuration III
	9	OSPF Authentication I
	9	OSPF Authentication II
	9	OSPF Metric Tuning I
	9	OSPF Metric Tuning II
	9	OSPF Metric Tuning III
	11	OSPF Neighbors I
	11	OSPF Neighbors II
	11	OSPF Neighbors III
	11	OSPF Neighbors IV
	11	OSPF Neighbors V
	9	Serial Configuration I
	9	Serial Configuration II
	9	Serial Authentication I
	9	Serial Authentication II
	9	Frame Relay Configuration I
	9	Frame Relay Configuration II
	9	Frame Relay Configuration III



	9	Frame Relay Configuration IV
	9	Frame Relay Configuration V
	9	Frame Relay Verification I
	9	Frame Relay Verification II
	9	Frame Relay Verification III
	16	NAT Configuration I
	16	NAT Configuration II
	16	NAT configuration III
	16	NAT configuration IV
	16	NAT configuration V
	16	NAT configuration VI
	16	NAT Configuration VII
	17	IPv6 Address Configuration I
	17	IPv6 Address Configuration II
	17	IPv6 Address Configuration III
	17	IPv6 Address Configuration IV
	17	IPv6 Address Configuration V
	17	IPv6 Address Configuration VI
	17	IPv6 Address Configuration VII
	17	IPv6 Address Configuration VII
	17	IPv6 Address Configuration IX
	17	IPv6 Routing Configuration I
	17	IPv6 Routing Configuration II
	17	IPv6 Routing Configuration III
	17	IPv6 Hostnames



# ICND2 Configuration Scenarios

Completion Dates...	After ICND2 Chapter...	Title
	1	VTP I
	1	VTP Transparent Mode
	1	VLAN trunking I
	1	VLAN trunking II
	1	STP Analysis I
	1	STP Configuration II
	5	IP Addressing and Configuration I
	5	IP Addressing and Configuration II
	4	IP default routing and classless/classful
	4	Default Routes
	6	Standard ACL I
	6	Extended ACL I
	6	Extended ACL II
	9	OSPF Config I
	9	OSPF Config II
	9	OSPF Config III
	9	OSPF metric Manipulation
	10	EIGRP Config I
	10	EIGRP Config II
	10	EIGRP metric Manipulation I
	10	EIGRP Variance and Maximum Paths I
	14	Frame Relay Config I
	14	Frame Relay Inverse ARP
	14	Frame Relay correlation
	16	NAT Config I
	16	NAT Config II



	17	IPv6 Config I
	17	IPv6 Config II



# ICND2 Troubleshooting Scenarios

Completion Dates...	After ICND2 Chapter...	Title
	3	Path Analysis I
	3	Path Analysis II
	12	Path Analysis III
	12	Path Troubleshooting I
	14	Path Troubleshooting II
	14	Path Troubleshooting III
	12	Path Troubleshooting IV
	3	VLAN Troubleshooting I
	12	OSPF Troubleshooting I
	12	Routing Analysis III
	14	Network Expansion
	16	NAT
	12	IP Routing II