



## Network Simulator Lab Study Plan

The CCNA 640-802 Network Simulator has 300 lab exercises, organized both by type (Skill Builder, Configuration Scenario, Troubleshooting Scenario, and Subnetting Exercise) and by major topic within each type.

This document lists tables that cross-reference book chapters of Cisco CCENT/CCNA ICND1 100-101 Official Cert Guide, Cisco CCNA Routing and Switching ICND2 200-101 Official Cert Guide, and Cisco CCNA Routing and Switching 200-120 Official Cert Guide Library, compared to the labs in CCNA 640-802 Network Simulator . When using the books and simulator, you might want to read a chapter and then do the labs related to that chapter as listed here.

### ICND1 Skill Builder Labs

Completion Dates	After Book and Chapter...	Title
	ICND1 7	Switch CLI Exec Mode
	ICND1 7	Switch CLI Configuration Process I
	ICND1 7	Switch CLI Configuration Process II
	ICND1 8	Setting Switch Passwords
	ICND1 8	Configuring Switch IP Settings
	ICND1 8	Interface Settings I
	ICND1 8	Interface Settings II
	ICND1 8	Interface Settings III
	ICND1 8	Switch Forwarding I
	ICND1 8	Switch IP Connectivity I
	ICND1 9	VLANs I
	ICND1 9	VLANs II
	ICND1 9	VLANs III

<b>Completion Dates</b>	<b>After Book and Chapter...</b>	<b>Title</b>
ICND1 10		Interface Status I
ICND1 10		Interface Status II
ICND1 10		Interface Status III
ICND1 10		Interface Status IV
ICND1 10		Switch Security I
ICND1 10		Switch Security II
ICND1 10		Switch Security III
ICND1 10		Switch Security IV
ICND1 15		Router CLI Exec Mode I
ICND1 15		Router CLI Exec Mode II
ICND1 15		Router CLI Configuration Process
ICND1 15		Setting Router Passwords
ICND1 15		Configuring Router IP Settings
ICND1 15		Configuring Local Usernames
ICND1 15		Configuring SSH
ICND2 20		Migrating to a New IOS Image
ICND2 20		Setting the Configuration Register
ICND2 20		Comparing Configuration Files
ICND2 20		Ignoring the Startup-Config File
ICND2 20		Booting a New Router IOS
ICND1 15		Terminal History I
ICND1 15		Terminal History II
ICND1 10		Topology Analysis
ICND1 18		Configuring IP Addresses I
ICND1 18		Configuring IP Addresses II
ICND1 18		Configuring IP Addresses III
ICND1 18		Configuring IP Addresses IV
ICND1 16		Examining the IP Routing Table
ICND1 16		Connected Routes
ICND1 16		Static Routes I
ICND1 16		Static Routes II

Network Simulator Lab Study Plan

<b>Completion Dates</b>	<b>After Book and Chapter...</b>	<b>Title</b>
	ICND1 16	Static Routes III
	ICND1 16	Static Routes IV
	ICND1 16	Default Routes
	N/A	IP Classless
	ICND1 19	Subnet Zero I
	ICND1 19	Subnet Zero II
	ICND1 19	Loopback Interfaces
	N/A	RIP Configuration I
	N/A	RIP Configuration II
	N/A	RIP Configuration III
	N/A	RIP Configuration IV
	N/A	RIP Configuration V
	N/A	RIP Configuration VI
	ICND1 18	PC IP Commands I
	ICND1 18	PC IP Commands II
	ICND1 18	PC IP Commands III
	ICND1 18	Using and Suspending Telnet Connections
	ICND1 18	Using debug
	ICND1 18	Testing Using pings with Hostnames
	N/A	RIP Verification I
	N/A	RIP Verification II
	ICND1 19	Configuring Hostnames
	ICND2 12	Serial Link Config I
	ICND2 12	Serial Link Config II
	ICND2 12	Serial Link Config III
	ICND2 12	Serial Link Config IV
	ICND2 12	Interface Status V
	ICND2 12	Interface Status VI

**ICND1 Configuration Scenario Labs**

<b>Completion Dates</b>	<b>After Book and Chapter...</b>	<b>Lab Title</b>
	ICND1 10	Switch Interfaces and Forwarding
	ICND1 10	Switch IP Connectivity
	ICND1 10	Switch Security I
	ICND1 10	Configuring VLANs I
	N/A	The Initial Configuration Dialogue (Setup)
	ICND1 15	New Job I
	ICND1 15	Rebuild a Config
	ICND1 18	SSH and Telnet
	ICND1 17	Subnetting and Addressing I
	ICND1 17	Subnetting and Addressing II
	ICND1 17	Subnetting and Addressing III
	ICND1 16	Static Routing I
	ICND1 16	Static Routing II
	N/A	RIP-2 Configuration I
	N/A	RIP Configuration II
	N/A	RIP Autosummary
	ICND1 18	IP and MAC Address Comparisons
	N/A	IP Classless
	ICND2 12	Serial Link Config I

**ICND1 Troubleshooting Scenario Labs**

<b>Completion Dates</b>	<b>After Book and Chapter...</b>	<b>Lab Title</b>
	ICND1 10	Switch Forwarding I
	ICND1 10	Port Security
	ICND1 18	Path Analysis I
	ICND1 18	Network Discovery I
	ICND1 18	Network Discovery II
	ICND1 18	IP Addressing and Routing
	ICND1 18	IP Routing I

**ICND1 Subnetting Exercise Labs**

<b>Completion Dates</b>	<b>After Book and Chapter...</b>	<b>Title</b>
	ICND1 14	Subnet ID Calculation I
	ICND1 14	Subnet ID Calculation II
	ICND1 14	Subnet ID Calculation III
	ICND1 14	Subnet ID Calculation IV
	ICND1 14	Subnet ID Calculation V
	ICND1 14	Subnet ID Calculation VI
	ICND1 14	Subnet ID Calculation VII
	ICND1 14	Subnet ID Calculation VIII
	ICND1 14	IP Address Rejection I
	ICND1 14	IP Address Rejection II
	ICND1 14	IP Address Rejection III
	ICND1 14	IP Address Rejection IV
	ICND1 14	IP Address Rejection V
	ICND1 14	IP Address Rejection VI
	ICND1 14	IP Address Rejection VII
	ICND1 14	IP Address Rejection VIII
	ICND1 14	IP Address Rejection IX
	ICND1 14	IP Address Rejection X
	ICND1 14	IP Address Rejection XI
	ICND1 19	Subnet ID Calculation IX
	ICND1 19	Subnet ID Calculation X
	ICND1 19	Subnet ID Calculation XI
	ICND2 5	IP Route Selection I
	ICND2 5	IP Route Selection II
	ICND2 5	IP Route Selection III
	ICND2 5	IP Route Selection IV
	ICND2 5	IP Route Selection V
	ICND2 5	IP Route Selection VI
	ICND2 5	IP Route Selection VII
	ICND2 5	IP Route Selection VIII
	ICND2 5	IP Route Selection IX
	ICND2 5	IP Route Selection X

**ICND2 Skill Builder Labs**

<b>Completion Dates</b>	<b>After Book and Chapter...</b>	<b>Title</b>
	ICND1 9	VLAN Config I
	ICND1 9	VLAN Config II
	ICND1 9	VLAN Config III
	ICND1 9	VLAN Config IV
	ICND1 9	VLAN Config V
	N/A	VTP Config I
	N/A	VTP Config II
	N/A	VTP Config III
	N/A	VTP Config IV
	N/A	VTP Config V
	ICND1 9	Trunking Config I
	ICND1 9	Trunking Config II
	ICND1 9	Trunking Config III
	ICND1 9	Trunking Config IV
	ICND2 2	STP Analysis I
	ICND2 2	STP Analysis II
	ICND2 2	STP Config I
	ICND2 2	STP Config II
	ICND2 2	STP Config III
	ICND2 2	Etherchannel
	ICND2 4	IP Addressing I
	ICND2 4	IP Addressing II
	ICND2 4	IP Addressing III
	ICND2 4	traceroute I
	ICND2 16	Default Route I
	ICND1 19	Zero Subnet
	ICND1 8	Switch IP address
	ICND1 23	ACL I
	ICND1 23	ACL II
	ICND1 23	ACL III
	ICND1 23	ACL IV

Network Simulator Lab Study Plan

<b>Completion Dates</b>	<b>After Book and Chapter...</b>	<b>Title</b>
	ICND1 23	ACL V
	ICND1 23	ACL VI
	ICND1 23	Named ACL I
	ICND1 23	Named ACL II
	ICND1 23	Named ACL III
	ICND1 23	ACL Analysis I
	ICND2 18	Autosummary
	ICND2 5	Routing Analysis I
	ICND2 4	Traceroute II
	ICND2 18	EIGRP Serial Configuration I
	ICND2 18	EIGRP Serial Configuration II
	ICND2 18	EIGRP Serial Configuration III
	ICND2 18	EIGRP Serial Configuration IV
	ICND2 18	EIGRP Serial Configuration V
	ICND2 18	EIGRP Serial Configuration VI
	ICND2 18	EIGRP Frame Relay Configuration I
	ICND2 18	EIGRP Frame Relay Configuration II
	ICND2 18	EIGRP Frame Relay Configuration III
	N/A	EIGRP Authentication I
	N/A	EIGRP Authentication II
	ICND2 18	EIGRP Route Tuning I
	ICND2 18	EIGRP Route Tuning II
	ICND2 18	EIGRP Route Tuning III
	ICND2 18	EIGRP Route Tuning IV
	ICND2 18	EIGRP Neighbors I
	ICND2 18	EIGRP Neighbors II
	ICND2 18	EIGRP Neighbors III
	ICND1 17	OSPF Serial Configuration I
	ICND1 17	OSPF Serial Configuration II
	ICND1 17	OSPF Serial configuration III
	ICND1 17	OSPF Serial Configuration IV

<b>Completion Dates</b>	<b>After Book and Chapter...</b>	<b>Title</b>
	ICND1 17	OSPF Serial Configuration V
	ICND1 17	OSPF Serial Configuration VI
	ICND1 17	OSPF Router ID I
	ICND1 17	OSPF Router ID II
	ICND2 17	OSPF Frame Relay Configuration I
	ICND2 17	OSPF Frame Relay Configuration II
	ICND2 17	OSPF Frame Relay Configuration III
	N/A	OSPF Authentication I
	N/A	OSPF Authentication II
	ICND2 17	OSPF Metric Tuning I
	ICND2 17	OSPF Metric Tuning II
	ICND2 17	OSPF Metric Tuning III
	ICND2 17	OSPF Neighbors I
	ICND2 17	OSPF Neighbors II
	ICND2 17	OSPF Neighbors III
	ICND2 17	OSPF Neighbors IV
	ICND2 17	OSPF Neighbors V
	ICND2 17	Serial Configuration I
	ICND2 12	Serial Configuration II
	ICND2 12	Serial Authentication I
	ICND2 12	Serial Authentication II
	ICND2 14	Frame Relay Configuration I
	ICND2 14	Frame Relay Configuration II
	ICND2 14	Frame Relay Configuration III
	ICND2 14	Frame Relay Configuration IV
	ICND2 14	Frame Relay Configuration V
	ICND2 14	Frame Relay Verification I
	ICND2 14	Frame Relay Verification II
	ICND2 14	Frame Relay Verification III
	ICND1 24	NAT Configuration I
	ICND1 24	NAT Configuration II



Network Simulator Lab Study Plan

<b>Completion Dates</b>	<b>After Book and Chapter...</b>	<b>Title</b>
	ICND1 24	NAT configuration III
	ICND1 24	NAT configuration IV
	ICND1 24	NAT configuration V
	ICND1 24	NAT configuration VI
	ICND1 24	NAT Configuration VII
	ICND1 27	IPv6 Address Configuration I
	ICND1 27	IPv6 Address Configuration II
	ICND1 27	IPv6 Address Configuration III
	ICND1 27	IPv6 Address Configuration IV
	ICND1 27	IPv6 Address Configuration V
	ICND1 27	IPv6 Address Configuration VI
	ICND1 27	IPv6 Address Configuration VII
	ICND1 27	IPv6 Address Configuration VII
	ICND1 27	IPv6 Address Configuration IX
	ICND1 29	IPv6 Routing Configuration I
	ICND1 29	IPv6 Routing Configuration II
	ICND1 29	IPv6 Routing Configuration III
	ICND1 29	IPv6 Hostnames
	ICND1 27	IPv6 Address Configuration I
	ICND1 27	IPv6 Address Configuration II
	ICND1 27	IPv6 Address Configuration III
	ICND1 27	IPv6 Address Configuration IV
	ICND1 27	IPv6 Address Configuration V
	ICND1 27	IPv6 Address Configuration VI
	ICND1 27	IPv6 Address Configuration VII
	ICND1 27	IPv6 Address Configuration VII
	ICND1 27	IPv6 Address Configuration IX
	ICND1 29	IPv6 Routing Configuration I
	ICND1 29	IPv6 Routing Configuration II
	ICND1 29	IPv6 Routing Configuration III
	ICND1 29	IPv6 Hostnames

**ICND2 Configuration Scenario Labs**

<b>Completion Dates</b>	<b>After Book and Chapter...</b>	<b>Title</b>
	N/A	VTP I
	N/A	VTP Transparent Mode
	ICND1 9	VLAN Trunking I
	ICND1 9	VLAN Trunking II
	ICND2 2	STP Analysis I
	ICND2 2	STP Configuration II
	ICND1 18	IP Addressing and Configuration I
	ICND1 18	IP Addressing and Configuration II
	ICND1 18	IP Default Routing and Classless/Classful
	ICND1 18	Default Routes
	ICND1 23	Standard ACL I
	ICND1 23	Extended ACL I
	ICND1 23	Extended ACL II
	ICND1 17	OSPF Config I
	ICND2 17	OSPF Config II
	ICND2 17	OSPF Config III
	ICND2 17	OSPF Metric Manipulation
	ICND2 18	EIGRP Config I
	ICND2 18	EIGRP Config II
	ICND2 18	EIGRP Metric Manipulation I
	ICND2 18	EIGRP Variance and Maximum Paths I
	ICND2 14	Frame Relay Config I
	ICND2 14	Frame Relay Inverse ARP
	ICND2 14	Frame Relay Correlation
	ICND1 24	NAT Config I
	ICND1 24	NAT Config II
	ICND1 29	IPv6 Config I
	ICND1 29	IPv6 Config II

### ICND2 Troubleshooting Scenario Labs

Completion Dates	After Book and Chapter...	Title
	ICND2 3	Path Analysis I
	ICND2 3	Path Analysis II
	ICND2 18	Path Analysis III
	ICND2 18	Path Troubleshooting I
	ICND2 18	Path Troubleshooting II
	ICND2 18	Path Troubleshooting III
	ICND2 18	Path Troubleshooting IV
	ICND1 10	VLAN Troubleshooting I
	ICND2 17	OSPF Troubleshooting I
	ICND2 18	Routing Analysis III
	ICND2 18	Network Expansion
	ICND1 24	NAT
	ICND2 5	IP Routing II

### ICND2 Subnetting Exercise Labs

Completion Dates	After Book and Chapter...	Title
	ICND1 20	VLSM Overlap I
	ICND1 20	VLSM Overlap II
	ICND1 20	VLSM Overlap III
	ICND1 20	VLSM Overlap IV
	ICND1 20	VLSM Overlap V
	ICND1 20	VLSM Overlap VI
	ICND1 20	VLSM Overlap VII
	ICND1 20	VLSM Overlap VIII
	ICND1 20	VLSM Overlap IX
	ICND1 20	VLSM Overlap X
	ICND1 20	VLSM Overlap XI
	ICND1 20	IP VLSM Route Selection I
	ICND1 20	IP VLSM Route Selection II
	ICND1 20	IP VLSM Route Selection III

<b>Completion Dates</b>	<b>After Book and Chapter...</b>	<b>Title</b>
	ICND1 20	IP VLSM Route Selection IV
	ICND1 20	IP VLSM Route Selection V
	ICND1 20	IP VLSM Route Selection VI
	ICND1 20	IP VLSM Route Selection VII