



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 Exercises) 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 easily correlates to the chapters in the book. As such, it is difficult to know when to do each lab when also reading the books.

This informal document lists tables 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 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 ICND1 Chapter	Title
	8	Switch CLI Exec Mode
	8	Switch CLI Configuration Process I
	8	Switch CLI Configuration Process II
	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

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Completion Dates	After ICND1 Chapter	Title
	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
	19	Router CLI Exec Mode I
	19	Router CLI Exec Mode II
	19	Router CLI Configuration Process
	19	Setting Router Passwords
	19	Configuring Router IP Settings
	19	Configuring Local Usernames
	19	Configuring SSH
	19	Migrating to a New IOS Image
	19	Setting the Configuration Register
	19	Comparing Configuration Files
	19	Ignoring the Startup-Config File
	19	Booting a New Router IOS
	19	Terminal History I
	19	Terminal History II
	19	Topology Analysis
	19	Configuring IP Addresses I
	19	Configuring IP Addresses II
	19	Configuring IP Addresses III
	19	Configuring IP Addresses IV
	20	Examining the IP Routing Table
	20	Connected Routes
	20	Static Routes I
	20	Static Routes II
	20	Static Routes III
	20	Static Routes IV

Completion Dates	After ICND1 Chapter	Title
	20	Default Routes
	20	IP Classless
	20	Subnet Zero I
	20	Subnet Zero II
	20	Loopback Interfaces
	20	RIP Configuration I
	20	RIP Configuration II
	20	RIP Configuration III
	20	RIP Configuration IV
	20	RIP Configuration V
	20	RIP Configuration VI
	21	PC IP Commands I
	21	PC IP Commands II
	21	PC IP Commands III
	21	Using and Suspending Telnet Connections
	21	Using debug
	21	Testing Using pings with Hostnames
	21	RIP Verification I
	21	RIP Verification II
	21	Configuring Hostnames
	23	Serial Link Config I
	23	Serial Link Config II
	23	Serial Link Config III
	23	Serial Link Config IV
	23	Interface Status V
	23	Interface Status VI

ICND1 Configuration Scenario Labs

Completion Dates	After ICND1 Chapter	Lab Title
	10	Switch Interfaces and Forwarding
	10	Switch IP Connectivity
	10	Switch Security I

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Completion Dates	After ICND1 Chapter	Lab Title
	10	Configuring VLANs I
	19	The Initial Configuration Dialogue (Setup)
	19	New Job I
	19	Rebuild a Config
	19	SSH and Telnet
	20	Subnetting and Addressing I
	20	Subnetting and Addressing II
	20	Subnetting and Addressing III
	20	Static Routing I
	20	Static Routing II
	20	RIP-2 Configuration I
	20	RIP Configuration II
	20	RIP Autosummary
	20	IP and MAC Address Comparisons
	20	IP Classless
	23	Serial Link Config I

ICND1 Troubleshooting Scenario Labs

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

ICND1 Subnetting Exercise Labs

Completion Dates	After ICND2 Chapter	Title
	17	Subnet ID Calculation I
	17	Subnet ID Calculation II
	17	Subnet ID Calculation III
	17	Subnet ID Calculation IV
	17	Subnet ID Calculation V
	17	Subnet ID Calculation VI
	17	Subnet ID Calculation VII
	17	Subnet ID Calculation VIII
	17	IP Address Rejection I
	17	IP Address Rejection II
	17	IP Address Rejection III
	17	IP Address Rejection IV
	17	IP Address Rejection V
	17	IP Address Rejection VI
	17	IP Address Rejection VII
	17	IP Address Rejection VIII
	17	IP Address Rejection IX
	17	IP Address Rejection X
	17	IP Address Rejection XI
	18	Subnet ID Calculation IX
	18	Subnet ID Calculation X
	18	Subnet ID Calculation XI
	21	IP Route Selection I
	21	IP Route Selection II
	21	IP Route Selection III
	21	IP Route Selection IV
	21	IP Route Selection V
	21	IP Route Selection VI
	21	IP Route Selection VII
	21	IP Route Selection VIII
	21	IP Route Selection IX
	21	IP Route Selection X

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
	8	ACL I
	8	ACL II
	8	ACL III

Completion Dates	After ICND2 Chapter	Title
	8	ACL IV
	8	ACL V
	8	ACL VI
	8	Named ACL I
	8	Named ACL II
	8	Named ACL III
	8	ACL Analysis I
	6	Autosummary
	6	Routing Analysis I
	9	Traceroute II
	12	EIGRP Serial Configuration I
	12	EIGRP Serial Configuration II
	12	EIGRP Serial Configuration III
	12	EIGRP Serial Configuration IV
	12	EIGRP Serial Configuration V
	12	EIGRP Serial Configuration VI
	12	EIGRP Frame Relay Configuration I
	12	EIGRP Frame Relay Configuration II
	12	EIGRP Frame Relay Configuration III
	12	EIGRP Authentication I
	12	EIGRP Authentication II
	12	EIGRP Route Tuning I
	12	EIGRP Route Tuning II
	12	EIGRP Route Tuning III
	12	EIGRP Route Tuning IV
	12	EIGRP Neighbors I
	13	EIGRP Neighbors II
	13	EIGRP Neighbors III
	11	OSPF Serial Configuration I
	11	OSPF Serial Configuration II
	11	OSPF Serial configuration III
	11	OSPF Serial Configuration IV

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Completion Dates	After ICND2 Chapter	Title
	11	OSPF Serial Configuration V
	11	OSPF Serial Configuration VI
	11	OSPF Router ID I
	11	OSPF Router ID II
	11	OSPF Frame Relay Configuration I
	11	OSPF Frame Relay Configuration II
	11	OSPF Frame Relay Configuration III
	11	OSPF Authentication I
	11	OSPF Authentication II
	11	OSPF Metric Tuning I
	11	OSPF Metric Tuning II
	11	OSPF Metric Tuning III
	13	OSPF Neighbors I
	13	OSPF Neighbors II
	13	OSPF Neighbors III
	13	OSPF Neighbors IV
	13	OSPF Neighbors V
	14	Serial Configuration I
	14	Serial Configuration II
	14	Serial Authentication I
	14	Serial Authentication II
	16	Frame Relay Configuration I
	16	Frame Relay Configuration II
	16	Frame Relay Configuration III
	16	Frame Relay Configuration IV
	16	Frame Relay Configuration V
	16	Frame Relay Verification I
	16	Frame Relay Verification II
	16	Frame Relay Verification III
	18	NAT Configuration I
	18	NAT Configuration II
	18	NAT configuration III

Completion Dates	After ICND2 Chapter	Title
	18	NAT configuration IV
	18	NAT configuration V
	18	NAT configuration VI
	18	NAT Configuration VII
	19	IPv6 Address Configuration I
	19	IPv6 Address Configuration II
	19	IPv6 Address Configuration III
	19	IPv6 Address Configuration IV
	19	IPv6 Address Configuration V
	19	IPv6 Address Configuration VI
	19	IPv6 Address Configuration VII
	19	IPv6 Address Configuration VII
	19	IPv6 Address Configuration IX
	19	IPv6 Routing Configuration I
	19	IPv6 Routing Configuration II
	19	IPv6 Routing Configuration III
	19	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
	7	Standard ACL I
	8	Extended ACL I

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Completion Dates	After ICND2 Chapter	Title
	8	Extended ACL II
	11	OSPF Config I
	11	OSPF Config II
	11	OSPF Config III
	11	OSPF Metric Manipulation
	12	EIGRP Config I
	12	EIGRP Config II
	12	EIGRP Metric Manipulation I
	12	EIGRP Variance and Maximum Paths I
	16	Frame Relay Config I
	16	Frame Relay Inverse ARP
	16	Frame Relay Correlation
	18	NAT Config I
	18	NAT Config II
	19	IPv6 Config I
	19	IPv6 Config II

ICND2 Troubleshooting Scenarios

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

ICND2 Subnetting Exercise Labs

Completion Dates	After ICND2 Chapter	Title
	5	VLSM Overlap I
	5	VLSM Overlap II
	5	VLSM Overlap III
	5	VLSM Overlap IV
	5	VLSM Overlap V
	5	VLSM Overlap VI
	5	VLSM Overlap VII
	5	VLSM Overlap VIII
	5	VLSM Overlap IX
	5	VLSM Overlap X
	5	VLSM Overlap XI
	5	IP VLSM Route Selection I
	5	IP VLSM Route Selection II
	5	IP VLSM Route Selection III
	5	IP VLSM Route Selection IV
	5	IP VLSM Route Selection V
	5	IP VLSM Route Selection VI
	5	IP VLSM Route Selection VII