

Module–Chapter–Lab Guide

Table D-1 A Complete Map to Lab Activities Associated with a Specific Chapter or Module

ONLINE CURRICULUM Module Number and Title	COMPANION GUIDE Chapter (pages)	ONLINE LAB TI Number	LAB COMPANION (ISBN 1-58713-111-0) Lab Number	ONLINE LAB Title	COMPANION GUIDE Page # of Lab Reference
CCNA-1					
Module 1 Introduction to Networking	Chapter 1 Introduction to Net- working	1.1.2	1-1	PC Hardware	Page 11
		1.1.6	1-2	PC Network TCP/ IP Configuration	Page 15
		1.1.7	1-3	Using ping and tracert from a Workstation	Page 16
		1.1.8	1-4	Web Browser Basics	Page 18
		1.1.9	1-5	Basic PC/Network Troubleshooting Process	Page 18
		1.2.5	1-6	Decimal to Binary conversion	Page 26
		1.2.6	1-7	Binary to Decimal Conversion	Page 28
		1.2.8	1-8	Hexadecimal Conversions	Page 30
Module 2 Networking Fundamentals	Chapter 2 Networking Fundamentals	2.3.6	2-1	OSI Model and TCP/IP Model	Page 75
		2.3.7	2-2	OSI Model Characteristics and Devices	Page 93
Module 3 Networking Media	Chapter 3 Networking Media	3.1.1	3-1	Safe Handling and use of a Multimeter	Page 119
		3.1.2	3-2	Voltage Measurement	Page 119

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		3.1.3	3-3	Resistance Measurement	Page 121
		3.1.5	3-4	Series Circuits	Refer to material on Page 122
		3.1.9a	3-10	Communications Circuits	Refer to material on Page 132
		3.1.9b	3-5	Fluke 620 Basic Cable Testing	Page 132
		3.1.9c	3-6	Straight-Through Cable Construc- tion	Page 132
		3.1.9d	3-7	Rollover Cable Construction	Page 132
		3.1.9e	3-8	Crossover Cable Construction	Page 132
		3.1.9f	3-9	UTP Cable Pur- chase	Page 133
		3.2.8	3-11	Fiber-Optic Cable Purchase	Page 144
Module 4 Cable Testing	Chapter 4 Cable Testing and Cabling LANs and WANs (p. 183-204)	4.2.9a	4-1	Fluke 620 Cable Tester - Wire map	Page 201
		4.2.9b	4-2	Fluke 620 Cable Tester - Faults	Page 201
		4.2.9c	4-3	Fluke 620 Cable Tester –Length	Page 201
		4.2.9d	4-4	Fluke LinkRunner –LAN Tests	Page 201
		4.2.9e	4-5	Fluke LinkRunner –Cable & NIC Tests	Page 201
Module 5 Cabling LANs and WANs	Chapter 4 Cable Testing and Cabling LANs and WANs (p. 204-243)	5.1.5	4-7	RJ45 Jack Punch Down	Page 215
		5.1.7	4-8	Hub and NIC Purchase	Page 218

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		5.1.10	4-9	Purchasing LAN Switches	Page 222
		5.1.12	4-10	Building a Peer-to-Peer Network	Page 228
		5.1.13a	4-11	Building a Hub-based Network	Page 231
		5.1.13b	4-12	Building a Switch-Based Network	Page 231
		5.2.3a	4-6	Connecting Router LAN Interfaces	Page 236
		5.2.3b	4-13	Building a Basic Routed WAN	Page 236
		5.2.3c	4-15	Troubleshooting Interconnected Devices	Page 241
		5.2.7	4-14	Establishing a Console Connection to a Router or Switch	Page 241
Module 6 Ethernet Fundamentals	Chapter 5 Ethernet Fundamentals	No Labs in Module 6	No Labs		
Module 7 Ethernet Technologies	Chapter 6 Ethernet Technologies and Ethernet Switching (p. 315-355)	7.1.2	6-1	Waveform Decoding	Page 319
		7.1.9a	6-2	Introduction to Fluke Network Inspector	Refer to material on Page 337
		7.1.9b	6-3	Introduction to Fluke Protocol Inspector	Refer to material on Page 337
Module 8 Ethernet Switching	Chapter 6 Ethernet Technologies and Ethernet Switching (p. 355-367)	No labs in Module 8	No Labs		
Module 9 TCP/IP Protocol Suite and IP Addressing	Chapter 7 TCP/IP Protocol Suite and IP Addressing	9.2.4	7-1	IP Addressing Basics	Page 404
		9.3.5	7-2	DHCP Client Setup	Page 417
		9.3.7	7-3	Workstation ARP	Page 411

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Module 10 Routing Fundamentals and Subnets	Chapter 8 Routing Fundamentals and Subnets	10.2.9	8-1	Small Router Purchase	Page 448
		10.3.5a	8-2	Basic Subnetting	Page 465
		10.3.5b	8-3	Subnetting a Class A Network	Page 465
		10.3.5c	8-4	Subnetting a Class B Network	Page 465
		10.3.5d	8-5	Subnetting a Class C Network	Page 465
Module 11 TCP/IP Transport and Application Layer	Chapter 9 TCP/IP Transport and Application Layers	11.2.4	9-1	Protocol Inspector, TCP, and HTTP	Refer to material on Page 500
Case Study: Structured Cabling Supplement	Appendix A Structured Cabling	Lab 1	A-1	Examination of Termination Types	Refer to material on Page 959
		Lab 2	A-2	Terminating a Category 5e Cable on a Category 5e Patch Panel	Refer to material on Page 959
		Lab 3	A-3	Tool Usage and Safety	Refer to material on Page 959
		Lab 4	A-4	Identification of Cables	Refer to material on Page 959
		Lab 5	A-5	Category 5e Outlet Termination	Refer to material on Page 959
		Lab 6	A-6	Terminating Category 5e to a 110 Block	Refer to material on Page 959
		Lab 7	A-7	Category 6 Jack Termination	Refer to material on Page 959
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Module 1 WANs and Routers	Chapter 10 WANs and Routers	1.2.5	10-1	Connecting Console Interfaces	Page 537
		1.2.6	10-2	Connecting Router LAN Interfaces	Page 537
		1.2.7	10-3	Connecting WAN Interfaces	Page 537
Module 2 Introduction to Routers	Chapter 11 Router Fundamentals	2.2.1	11-1	Router Configura- tion Using Setup	Page 559
		2.2.4	11-2	Establishing a Console Session with HyperTerminal	Page 563

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		2.2.9	11-3	Command Line Fundamentals	Page 574
Module 3 Configuring a Router	Chapter 12 Router Configuration	3.1.2	12-1	Command Modes and Router Identification	Page 596
		3.1.3	12-2	Configuring Router Passwords	Page 597
		3.1.4	12-3	Using Router show Commands	Page 600
		3.1.5	12-4	Configuring a Serial Interface	Page 601
		3.1.6	12-6	Making Configuration Changes	Page 603
		3.1.7	12-5	Configuring an Ethernet interface	Page 602
		3.2.3	12-7	Configuring Interface Descriptions	Page 605
		3.2.5	12-8	Configuring Message of the Day (MOTD)	Page 606
		3.2.7	12-9	Configuring Host Tables	Page 607
		3.2.9	14-4	Copying, Editing, and Pasting Configurations	Page 660
Module 4 Learning about Other Devices	Chapter 13 Learning about Neighboring and remote devices	4.1.4	13-1	Creating a Network Map using CDP	Page 628
		4.1.6	13-2	Using CDP Commands	Page 628
		4.2.2	13-3	Establishing and Verifying a Telnet Connection	Page 631
		4.2.3	13-4	Suspending and Disconnecting Telnet Sessions	Page 631
		4.2.4	13-5	Advanced Telnet Operations	Page 632
		4.2.5a	13-6	Connectivity Tests - Ping	Page 634

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		4.2.5b	13-7	Connectivity Tests - Traceroute	Page 637
		4.2.6	13-8	Troubleshooting IP Address Issues	Page 640
Module 5 Managing Cisco IOS Software	Chapter 14 Managing Cisco IOS Software	5.1.3	14-1	Using the Boot System Command	Page 649
		5.1.5	14-2	Troubleshooting Config Register Boot Problems	Page 650
		5.2.3	14-3	Managing Config- uration Files with TFTP	Page 658
		5.2.5	14-5	Managing IOS Images with TFTP	Page 662
		5.2.6a	12-10	Password Recovery	Page 613
		5.2.6b	14-6	Managing IOS Images with ROM- mon and Xmodem	Page 667
Module 6 Routing and Routing Protocols	Chapter 15 Routing and Routing Protocols	6.1.6	15-1	Configuring Static Routes	Page 686
Module 7 Distance Vector Routing Protocols	Chapter 16 Distance Vector Routing Protocols	7.2.2	16-1	Configuring RIP	Page 735
		7.2.6	16-2	Troubleshooting RIP	Page 740
		7.2.7	16-3	Preventing Routing Updates Through an Interface	Page 741
		7.2.9	16-4	Load Balancing Across Multiple Paths	Page 741
		7.3.5	16-5	Configuring IGRP	Page 749
		7.3.6	16-6	Default Routing with RIP and IGRP	Page 753
		7.3.8	16-7	Unequal Cost Load Balancing with IGRP	Page 753
Module 8 TCP/IP Suite Error and Control Messages	Chapter 17 TCP/IP Error and Control Messages	No labs in Module 8			

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Module 9 Basic Router Troubleshooting	Chapter 18 Basic Router Troubleshooting	9.1.1	18-2	Using show ip route to Examine Routing Tables	Page 804
		9.1.2	18-4	Gateway of Last Resort	Page 805
		9.1.8	18-5	Last Route Update	Page 805
		9.2.6	18-1	Troubleshooting Using Ping and Telnet	Page 798
		9.3.4	18-7	Troubleshooting using Traceroute	Refer to material on Page 796
		9.3.5	18-3	Troubleshooting Routing Issues with show ip route and show ip protocols	Page 805
		9.3.7	18-6	Troubleshooting Routing Issues with Debug	Page 809
Module 10 Intermediate TCP/IP	Chapter 19 Intermediate TCP	10.1.6	19-1	Multiple Active Host Sessions	Page 833
		10.2.5	19-2	Well-Known Port Numbers and Multiple Sessions	Page 833
Module 11 Access Control Lists (ACLs)	Chapter 20 Access Control Lists	11.2.1a	20-1	Configuring Standard Access Lists	Refer to material on Page 855
		11.2.1b	20-4	Standard ACLs	Page 855
		11.2.2a	20-3	Configuring Extended Access Lists	Page 867
		11.2.2b	20-5	Simple Extended Access Lists	Refer to material on Page 863
		11.2.3a	20-2	Configuring a Named Access List	Page 866
		11.2.3b	20-6	VTY Restriction	Refer to material on Page 870
		11.2.3c	20-7	Simple DMZ Extended Access Lists	Refer to material on Page 871
		11.2.3d	20-8	Multiple Access List Functions (Challenge Lab)	Refer to material on Page 871