

Cisco Packet Tracer v5.3 Support for Networking Academy Curricula

This document identifies chapters from all Networking Academy courses that include content supported by Packet Tracer 5.3. The purpose of this resource is to help instructors leverage Packet Tracer to create rich learning experiences using Packet Tracer's simulation, visualization, collaboration, and assessment capabilities

		<i>IT Essentials: PC Hardware and Software</i>	<i>Networking for Home and Small Businesses</i>	<i>Working at a Small-to-Medium Business or ISP</i>	<i>Introducing Routing and Switching in the Enterprise</i>	<i>Designing and Supporting Computer Networks</i>	<i>Network Fundamentals</i>	<i>Routing Protocols and Concepts</i>	<i>LAN Switching and Wireless</i>	<i>Accessing the WAN</i>	<i>CCNA Security</i>	<i>Implementing IP Routing</i>	<i>Implementing IP Switching</i>	<i>Maintaining and Troubleshooting IP Networks</i>
Layer	PT 5.3 Feature	ITE PC	CCNA Discovery				CCNA Exploration				CCNA S	CCNP		
			D1	D2	D3	D4	E1	E2	E3	E4		ROUTE	SWITCH	TSHOOT
L1	Ethernet Straight	8,13,15	1,3,4,7,9	1,2,3,5,9	1 - 10	1,3,4,5,6,8	2,7,8,9,10	1	1,2,7	1			2	
	Ethernet Cross													
	Console RS-232													
	Serial DCE/DTE													
	Optical Fiber													
	Telephone													
	Coaxial cable													
	Wireless													
L2	Ethernet	1,3,8,15	3	3,5,9	1,5,8,9	1,3,4,	2,7,8,9,10	1	1,2	1	6		2	
	LACP/LAgP												2	
	802.11a/b/g/n	13,15,16	3,7,9			3,5,9	7,8		7	6	6			8
	DTP								3		6		2	4
	VTP				3,9,10	3			4		6		2	4
	802.1q				3,9	7			3,4,6		6		2	4
	STP/RSTP				3,9	1,5,7			5		6		3	4
	CDP			5	2,3	3		2	3	4,8				
	L2 QoS: CoS				5,8	4,5							7	7
	HDLC			5	7,9		7	1		1				
	Frame Relay			5	6,7,9	5,8	7	11		3				
	PPP			5	7,9,10	8	7	1		2				
	PPPoE											7	2	
L3	IPv4, ICMPv4	8,15	3,5	4,5,9	1 - 10	6	5,6,9,11	3,4,6		7	1, 4 & 8			6
	IPv6, ICMPv6			4	5	6	5			7		8		6
	L3 QoS: ToS					1,4				7		7		7, 8
	IPSec			8		8					7 & 8	7	3	
	ISAKMP										7 & 8	7		
L4	VPN				1,2	4,8				6	8	7	3	9
	UDP and TCP	8,15	6	7	1,5,8	4,5	4	5,7,9		5	1 & 4		6	
L7-6-5	HTTP/HTTPS		6	7,8,9	2,8	4	2,3			4	2			
	Multilevel DNS	15	6	1,7,9		7	3,4							
	TFTP/FTP	8,15	6	7,8	1,4,8	3	3,4, 11		2					
	DHCP	8,15	5	5,9		6	3,4,6			7		5		6, 8

Cisco Packet Tracer v5.3 Support for Networking Academy Curricula

		<i>IT Essentials: PC Hardware and Software</i>	<i>Networking for Home and Small Businesses</i>	<i>Working at a Small-to-Medium Business or ISP</i>	<i>Introducing Routing and Switching in the Enterprise</i>	<i>Designing and Supporting Computer Networks</i>	<i>Network Fundamentals</i>	<i>Routing Protocols and Concepts</i>	<i>LAN Switching and Wireless</i>	<i>Accessing the WAN</i>	<i>CCNA Security</i>	<i>Implementing IP Routing</i>	<i>Implementing IP Switching</i>	<i>Maintaining and Troubleshooting IP Networks</i>
Layer	PT 5.3 Feature	ITE PC	CCNA Discovery				CCNA Exploration				CCNA S	CCNP		
	Telnet/SSH	15	8,9	1,2,3,8	1,8	3,11	2	2	4	2		5	3	
	SMTP/POP3	8,15,	6	7	4,5	3,4								
	H.323, SCCP, RTP			5	4		9			6				
	NAT		5	4,9	2,4,8	6	6		7	4	7		6	
	ACLs			5,8	4,8	1,5,7			5,7,8	4		2, 5, & 6	9	
	AAA/RADIUS/TACACS							7		3		5	9	
	SYSLOG		8	8,9					4,8	2		5 & 6	3	
	IDS/IPS/ZBPF	8	8	2	5			7		4 & 5		5 & 6		
	SNMP		8	9	2	4				2		5 & 6	3	
Routing	Static Routing			5,6	5	5	5	2	3,8					5
	RIPv1/v2/NG			6,9	5	1,6	5	5,7	7			8 (RIPng)		5
	EIGRP			6	5,6,9	1,5,6,7	5	9				2		5
	OSPF			6	6,9,10	1,5	5	10,11						5
	MultiArea OSPF							11				3		
	Basic BGP			6	4			3				6		5
	Redistribution				9			4,9				4		5
Devices	PC/Hub/Switch/Router/AP	1,3,8,15	1,2,3,4,9	1,2,3,5,8,9	1 - 10	2,7,8,10	2,5-11	1 - 11	1,2		6	1	1	