Cisco Networking Academy											
Computer Networking Theory and Practice											
(Cisco Semesters One and Two)											
XXXXXXXXXXXXXXXXXX	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	
Essential		Who is Cis	co and Wha	at is Networ	king?						
Questions	How does	a computer	work?								
				How do yo	u design a r	network?					
					What are the	he parts of a	a network a	nd how do t	hey work?		
				What types of problems do networks have? How do you fix them?							
				What are Routers and Switches and how are they used?							
				How do Technicians calculate and configure?							
				How do Ro	uters talk to	o each othei	?				
					What is Bir	nary; Hexad	ecimal; and	Octets?			
Content Computing basics; The OSI model; LANs Routing and Addressing; Protocols;											
in terms of essentia	al Electro	nic Signals;	Media; Co	nncections;	Cable;	The sev	en layers of	the OSI			
concepts and topic	s Conn	ections; Col	llisions; Cor	cepts; Star	dards	WA	Ns and Rou	iting			
						Router	[·] Componer	nts; Router s	set-up and s	start-up	
						IOS	images; TC	P/IP			
				Radd	Raddressing; Routing; Routing Protocols; Configurations; Commands						
					Network troubleshooting; Practical Router Configurations						
Standards/Skills	1.1, 1.2,	1.8, 1.9,	4.15, 4.17	6.2, 13.1	13.13, 13.1	17	13.17, 13.1	8	7.3, 10.4		
i.e., processes and		3.14, 3.20	5.4, 5.11	13.3		3.2, 4.14,		10.4, 11.13	8	13.1, 13.3	
skills emphasized			5.15			13.17		13.18, 16.20		13.15	
Indiana Academic									11.13, 12.8	8	
Standards									13.1	13.16	
plus										13.17	
MCSC skills										16.2	
Products/Assessments		Group Work		Individual	Group	Practice Configurati		on	E-sim Labs		
It is assumed that			Individual	Practical	Practical	Router	Worksheet	S		Practical	
teachers will assess			Simulation	Labs	Work	Configurati	on	Hexadecim	al	Config.	
students with traditional			Labs					and		Exam	
tests.								Binary			
								Work-			
								sheets			