Complete Cisco CCENT Skill Set (Topics)	CCENT	CCT	Matching Cisco CCT Skill Set (Topics)
Describe the operation of data networks	,	1	Describe in general terms the basic functionality and key differences for the following hardware: LAN Switch, Router, Modern, Wireless Access
Select the components required to meet a given naturals specification		Ė	Points
how data flows in a network	1	1	TCP/IP Stack versus the OSI Model
Describe common networking applications including web applications Describe the purpose and basic operation of the protocols in the OSI and TCP models	1	1	TCP/IP Stack versus the OSI Model
TCP models  Describe the impact of applications (Voice Over IP and Video Over IP) on a network	1		
Interpret network diagrams Determine the path between two hosts across a network	1	1	Path Determination
Describe the components required for network and Internet communications	1	1	LAN and WAN components
Identify and correct common network problems at Layers 1, 2, 3, and 7 using a layered model approach  Differentiate between LANWAN operation and features	1	1	Differentiate between these layer 2 technologies: Ethernet, Fast Ethernet, Gigsbit Ethernet, Serial, ATM, ISDN, DSL, Optical, etc.
Implement a small switched network	_	Ė	Gigabit Etherner, Serial, ATM, ISDN, DSL, Optical, etc
Select the appropriate media, cables, ports, and connectors to connect switches to other network devices and hosts	1	1	Examining LAN cabling
Explain the technology and media access control method for Ethernet technologies  Explain accessors accessors and basic staffs approximate accessors.	1	1	Examining LAN cabling Extending a LAN with a switch or router
Explain network segmentation and basic traffic management concepts Explain the operation of Cisco switches and basic switching concepts Perform, save, and verify initial switch configuration tasks, including remote	1	1	Extending a LAN with a switch  Managing IOS configurations using different connections
access management  Yeally network status and saleth operation saleg basic citilizes. Including progressions, Talest, SDPL say, and goardig. SHOW & DEBUG community	1	1	Browging Co, contiguistics and different connections.  Once the time size and independ the following communits:  diver writing: diver writing: diver writing config diver writing writing config diver writing writing config diver writing writing config diver writing writing config.
Implement and verify basic security for a switch (port security, deactivate ports)	1		
Identify, prescribe, and resolve common switched network media issues, configuration issues, autonegoliation, and switch hardware failures	1	1	Examing common network problem at Layer 1 and 2
Implement an IP addressing scheme and IP services to meet network requirements for a small branch office			
Describe the need and role of addressing in a network and create and apply an addressing scheme to a network Assign and verify valid IP addresses to hosts, servers, and networking	1	1	Understanding IP addressing and subnets
devices in a LAN environment	1	1	Describe what an IP address and subnet is
Explain the basic uses and operation of NAT in a small network connecting to one ISP	1		
Describe and verify DNS operation  Describe the operation and benefits of using private and public IP addressing	1 1		
Enable NAT for a small naturals with a single ISP and monaction using SDM	1		
and verify operation using CLI and ping Configure, verify and troubleshoot DHCP and DNS operation on a router, including CLI/SDM	1		
Implement static and dynamic addressing services for hosts in a LAN environment	1		
Identify and correct IP addressing issues Implement a small routed network Describe basic routing concepts, including packet forwarding and router			
Describe the operation of Cisco routers, including router bootup process, POST, and router components	1	1	Extending a LAN with a router
Belief the appropriate media, cables, ports, and connectors to connect recurs to other network devices and hosts	1	1	Explaining the Class device boots of process study the Station guidaly. — Etherwise flow exemple, cross-or-or, straight, and so only. — Etherwise flow exemple, cross-or-or, straight, and so only. — Fiber for exemple, DC, ST, FCJ. — Fiber for exemple, BC, ST, FCJ. — Fiber for CL exemple, DC, ST, FCJ. — Fibe
Configure, verify, and troubleshoot RIPv2	1		Describe the different operating modes for Cisco software:
Access and utilize the router CLI to set basic parameters	1	1	Describe the different operating modes for Cisco software:  - User ID-XEC Mode  - Printingsed EXPC Mode  - Global Configuration Mode  - Global Mode or rommon
Connect, configure, and verify operation status of a device interface. Verify device configuration and network connectivity using ping, tracerouse,	1	1	Understanding the Cisco Device interface status  Managing Cisco IOS Configurations using different connections
teinet, SSH or other utilities  Perform and verify routing configuration tasks for a static or default route given specific routing requirements	1	Ė	and the state of t
Manage IOS Configuration files, including save, edit, upgrade, and restore	1	1	Managing Cisco IOS Configurations using different connections
	1	1	Managing Cisco IOS Images
Manage Cisco IOS Images			
Manage Cisco IOS Images Implement password and physical security	1		
Managa Cisco IOS Images Implement password and physical security Verify nateroids status and nouter operation using basic utilities, including piny security, status, SSH, sp., posnilly, and SHOWA EXECUTION Commands Testakin and seket the approximate similarizative tasks required for a	1	1	Using show, arp, ping, telnet, SSH, and ipconfig commands
Managa Cisco IOS Images terplement password and physical security week, nation, State and repair specifies using least ordina, schading per- securate, latest SSV 40, po. poorlig, and SHOWA CERDIG communities capabilities and select the appropriate administrative tasks required for capabilities.	1 1	1	Using show, arp, ping, salner, SSH, and ipcortig commands
Manage Cosc IOS Images Implament password and physical assembly why instant states and name operation using basic utilities, including pin measures, latest, SSH saps, possible, and SHOW & CEEDIO commands reserved, latest, SSH saps, possible, and SHOW & CEEDIO commands reserved to the properative administrative tasks required for a NLAM Assert and TURNAL Asserts and SHOW Asserts and Asserts and SHOW ASSERTS ASSERT		1	Using show, arp, ping, tallest, SSH, and pooring commands  Welkes components and topology
Managar Casan OSI magain mylamora prasoni dei pripilitati assamby mylamora prasoni dei pripilitati assamby mylamora prasoni dei pripilitati assamby mylamora prasoni dei pripilitati assambi mylamora dei pripilitati assambi dei pripilitati dei prip	1		Dang allow, arp, ping, salnet, SDH, and pooring commands
Manager Cross OSS magain searchy markers are present and playman searchy markers are present and playman searchy markers state of the search search and playman states or compared and search and search and search and search and search Copials and select the superpulses administrated seals required for a Copials and select the superpulses administrated seals required for a Search search search and search and search and search and search and Decides assembly as a search and search and search and Search search and search and search and search and search and search and search and search and search and search an	1 1		Sing show ary ping salvel, SSH, and gooding commands
Managar Casan OS magain  implement passessed and popular description  implement passessed and popular description  implement passessed and popular description  implement passessed and popular  for a  format of the popular  format in the popular  format	1 1 1		Diring show any ping, baher, SSH, and pooring commands.
Managar Cisson OSS magain security may make make a processor and playar and analysis may make that are processor and playar and the company of a company make that are designed and a company of a company make that the superprises administrative studies required for a company of the company of the company of a possible of the company o	1 1 1		Siving show any ping, talvel, SSH, and pooring commands.
Managar Casan OS magain  implement passessed and popular description  implement passessed and popular description  implement passessed and popular description  implement passessed and popular  for a  format of the popular  format in the popular  format	1 1 1 1 1		Strap alone, any ping salved, 50% and broofing commends
Manager Cross OSS mayors with more present and playman annually with more present and playman annually with more thanks and manager several to make a shading pare served presents assess and manager several to make a shading pare copyrised and select the space present annual manager several to annual copyrised and select the space present annual manager several to annual copyrised and select the space present annual manager several to annual copyrised annual copyrised annual manager several manager several copyrised annual manager of the present annual manager several copyrised annual manager of the copyrised annual manager several copyrised annual manager of the copyrised annual manager of the present and copyrised annual manager of the copyrised annual ma	1 1 1 1 1 1 1 1 1 1 1		Sing allow ary pring salved, 60% and booring commends
Manager Cross OSS mayors with more present and playman annually with more present and playman annually with more thanks and manager several to make a shading pare served presents assess and manager several to make a shading pare copyrised and select the space present annual manager several to annual copyrised and select the space present annual manager several to annual copyrised and select the space present annual manager several to annual copyrised annual copyrised annual manager several manager several copyrised annual manager of the present annual manager several copyrised annual manager of the copyrised annual manager several copyrised annual manager of the copyrised annual manager of the present and copyrised annual manager of the copyrised annual ma	1 1 1 1 1 1 1 1 1 1		Sing show any ping stated, SSH, and gooding commands
Managin Chain OSI magain  mylement present der pflysion desselvity  mylement present der pflysion desselvity  mylement present der pflysion desselvity  mylement des pflysion desselvity  mylement  m	1 1 1 1 1 1 1 1 1 1 1		Direg show any pring talest, SSH, and pooring commands  Tributes components and topology  Tributes component