

Curriculum

CCNA (200-301) - Implementing and Administering Cisco Solutions

Main Topic	Sub-topic
What is networking	
	Types of communication channel : Wired communication channel Wireless communication channel
	Types of communication : Unicast type communication Broadcast type communication Multicast type communication
	Types of mode : Simplex mode Duplex mode
	- Collision domain - broadcast domain
IP address	
	Ip address V4/ Classes / Subnet mask/ VLSM
	Subnetting and it's type
OSI Model	7 layer explanation - OSI/s TCP - TCP& UDP -Header intro
Network Hardware	Devices & Types of Wire
	ARP - PING - Traceroute

Intro of IOS	Internal Components
	Bootting sequence
	Access of Router / Cables / ports
	Use of Simulator
	User and privilege mode with show command + basic config
	Shortcuts
Routing	
	Routing basics - Why Routing, AS no., AD & Metric, Static v/s Dynamic
	Static and Defalut - Theory and lab
	RIP & EIGRP basic thoery and basic lab
	OSPF
Network Management	
	DHCP & DNS
	ACL
	NAT
Switching	
	VLAN & Switchport with DTP
	VTP
	STP
	Port security
	Etherchannel

IPV6	
Network Management	
	CDP & LDP
	NTP & Syslog
	IOS Password recovery, backup and upgrade
Miscellaneous	HSRP
	Cloud
	Wireless
	Automation
	Qos
	Cisco 3 layer hierarchical model