

Grade 11 – IT Sector – Networking I. Subject

Topic	Curriculum
Review	- IPv4 address - Cisco network device access (vty: ssh v. telnet, console) - Cisco device configuration (local, tftp) - SOHO basics
IPv4 Network Basics	- Fixed-length subnetting (FLSM) - Variable-length subnetting (VLSM) - Summary network address - Network design based on custom address requirements
DHCP	- DHCP protocol operation - Configuring DHCP on Cisco devices, SOHO routers and Server OS
Switch	- L2 theory - MAC address table
Router	- Simple Static route - RIP - Wildcard mask - EIGRP - OSPF
Network Address Translation (NAT)	- Private and public IPv4 addresses - SNAT - DNAT - PAT - Port-forwarding - Port-triggering