

CCNA Exploration

Semester 3

Final Test Review

Chapters 1

Be familiar with the hierarchical network model, the benefits of using this model, and what functionality can generally be found at each layer.

Chapter 2

Be familiar with CSMA/CD and how it is within an 802.3 network.

Be familiar with the functionality provided by a switch.

Know how to configure a switch

- Basic configuration
- Security
- Remote access

Be familiar with port security and its effects on illegitimate traffic.

Chapter 3

Be familiar with the effects of a broadcast on a local network, remote network, and other VLANs.

Be familiar with VLANs and VLAN trunking.

Be familiar with the various trunking modes and how they are each used to negotiate a trunk.

Know how to configure and manage VLANs and trunks.

Be familiar with common issues with switches and routers in configuring VLANs and trunks.

Chapter 4

Be familiar with VTP and the functionality it is expected to perform.

Be familiar with the different VTP modes and their roles in a VTP domain.

Be familiar with the purpose and configuration of VTP pruning.

Know how to configure, manage, and troubleshoot VTP.

Chapter 5

Be familiar with STP and how it is used to eliminate undesirable effects of redundancy on a network.

Know how cost is determined in a STP domain and how it is used.

Be familiar with how STP determines the root bridge and port roles using the Bridge ID.

Be familiar with the different port states a switch port may transition through.

Know the differences between STP and RSTP.

Chapter 6

Know what is necessary for devices on different VLANs to communicate with each other.

Be familiar with subinterfaces and how they are used in a router-on-a-stick configuration.

Be able to determine the path a packet will take when received by a router (both traditional and router-on-a-stick configurations).

Know how to configure both traditional and router-on-a-stick routing.

Be familiar with common switch and router issues when configuring inter-VLAN routing (both traditional and router-on-a-stick configurations).

Chapter 7

Recognize the advantages and disadvantages of using an 802.11.

Be familiar with wireless network configurable attributes such as wireless mode, security, and the SSID and what they are used for.

Be familiar with the steps to initially configure a wireless router.