

The following topics are important to know about and be able to explain, for the written exam:

- Basic Switch Concepts
  - Switch Packet Forwarding Methods
  - Layer 2 and Layer 3 Switching
  - Basic Switch Configuration
- VLANs
  - VLAN Switch Port Modes
  - VLAN trunks
- VTP
  - Operation
  - VTP Configuration
- STP
  - Redundancy
  - The Algorithm
  - Port roles
  - Electing
- Inter VLAN routing
  - Interfaces and subinterfaces
  - Router on a stick
  -
- PPP
  - DTE-DCE
  - HDLC
  - LCP
  - NCP
  - PAP
  - CHAP
  
- Network Security
  - Secure Routers
  - Secure Router Network Services
  - SDM
  
- ACLs
  - All of it
  
- NAT
  - All of it
  
- PAT
  - All of it
  
- DHCP
  - All of it
  
- IPv6
  - (not much)