

High level technical topics to Prepare for Cyber Security & Wireless Networking:

- Types of Communication – Unicast, Broadcast and Multicast
- Ways of Data Transmission – Simplex, Half Duplex and Full Duplex
- Network Topologies, Types of Networks – LAN, MAN and WAN
- Ethernet Standards, CSMA/CD
- OSI Model and TCP/IP Model
- IP Addressing – Classes of IP Addresses, Subnet Mask, Broadcast IP Address
- Types of IP Addresses – Static, Dynamic, Loopback, Private and Public IP Addresses
- MAC Addresses, Broadcast Mac Address
- Network Devices – Repeaters, Hubs, Switches, Routers and Firewall
- Common Network Protocols/Services – DHCP, DNS, ARP, TCP, UDP, FTP, Telnet, SSH
- Logical Port Numbers – Reserved, Registered and Dynamic Range of logical port numbers
- Common Network Commands – ipconfig, ping, nslookup, netstat, tracert.