

NETWORK FUNDAMENTALS OUTLINE

PHASE 1

- Introduction to Networking
 - The TCP/IP Network Model and OSI Reference Model
- o IPv4 Addressing and Subnetting/Summarization
- Static Routing
- General Switching
 - VLAN (Virtual Local Area Network)
 - Trunk/Access Interfaces
- Layer 2 & 3 dataflows

PHASE 2

- Spanning-Tree
- Dynamic routing protocols
 - EIGRP (Enhanced Interior Gateway Routing Protocol)
 - OSPF (Open Shortest Path First)
- Troubleshooting
- o Checkpoint Quiz

PHASE 3

- Internet Protocols
 - BGP (Border Gateway Protocol)
 - NAT (Network Address Translation
- Redundancy Protocols
 - Port-Channel LACP
 - HSRP (Hot-Standby Routing Protocol)
- Network Services
 - DHCP (Dynamic Host Control Protocol)
- Cloud Technologies
 - AWS (Amazon Web Services)

PHASE 4

- o Filtering
 - ACLs (Access Control Lists)
 - Prefix Lists/Route Maps
- o Tunneling Protocols
 - IPsec
- Final Quiz and Lab