

- 20%** **2.0 Network Access**
- 2.1 Configure and verify VLANs (normal range) spanning multiple switches
 - 2.1.a Access ports (data and voice)
 - 2.1.b Default VLAN
 - 2.1.c InterVLAN connectivity
- 2.2 Configure and verify interswitch connectivity
 - 2.2.a Trunk ports
 - 2.2.b 802.1Q
 - 2.2.c Native VLAN
- 2.3 Configure and verify Layer 2 discovery protocols (Cisco Discovery Protocol and LLDP)
- 2.4 Configure and verify (Layer 2/Layer 3) EtherChannel (LACP)
- 2.5 Interpret basic operations of Rapid PVST+ Spanning Tree Protocol
 - 2.5.a Root port, root bridge (primary/secondary), and other port names
 - 2.5.b Port states and roles
 - 2.5.c PortFast
 - 2.5.d Root guard, loop guard, BPDU filter, and BPDU guard
- 2.6 Describe Cisco Wireless Architectures and AP modes
- 2.7 Describe physical infrastructure connections of WLAN components (AP, WLC, access/trunk ports, and LAG)
- 2.8 Describe network device management access (Telnet, SSH, HTTP, HTTPS, console, TACACS+/RADIUS, and cloud managed)
- 2.9 Interpret the wireless LAN GUI configuration for client connectivity, such as WLAN creation, security settings, QoS profiles, and advanced settings