

- 1.9.c Port-security
- 1.9.d SXP, SGT
- 1.10 Configure and troubleshoot network services
 - 1.10.a DNS
 - 1.10.b DHCPv4 / DHCPv6
 - 1.10.c NTP, SNTP
 - 1.10.d SYSLOG
 - 1.10.e SNMP
 - 1.10.f CDP, LLDP
 - 1.10.g SDG. mDNS

- 2.0 Configure and Troubleshoot an Autonomous Deployment Model (10%)**
 - 2.1 Configuring and troubleshooting different modes and roles
 - 2.1.a Root
 - 2.1.b WGB
 - 2.1.c Bridge
 - 2.2 Configuring and troubleshooting SSID/MBSSID
 - 2.3 Configuring and troubleshooting security
 - 2.3.a L2 security policies
 - 2.3.b Association filters
 - 2.3.c PSPF
 - 2.3.d Local radius
 - 2.3.e dot1x profiles
 - 2.3.f Guest
 - 2.4 Configuring and troubleshooting radio settings
 - 2.5 Configuring and troubleshooting multicast
 - 2.6 Configuring and troubleshooting QoS

- 3.0 Configure and Troubleshoot a Unified Deployment Model (Centralized) (23%)**
 - 3.1 Configuring and controlling management access
 - 3.2 Configuring and troubleshooting interfaces
 - 3.3 Configuring and troubleshooting lightweight APs
 - 3.3.a dot1x
 - 3.3.b LSC
 - 3.3.c AP modes
 - 3.3.d AP authentication / authorization
 - 3.3.e Logging
 - 3.3.f Local / global configuration
 - 3.4 Configuring and troubleshooting high availability and redundancy
 - 3.4.a Clients
 - 3.4.b APs
 - 3.4.c WLCs
 - 3.5 Configuring and troubleshooting wireless segmentation
 - 3.5.a RF profiles
 - 3.5.b AP groups
 - 3.5.c Flexconnect
 - 3.6 Configuring and troubleshooting wireless security policies
 - 3.6.a WLANs
 - 3.6.b L2/L3 security
 - 3.6.c Rogue policies
 - 3.6.d Local EAP
 - 3.6.e Local profiling
 - 3.6.f ACLs
 - 3.6.g Certificates
 - 3.7 Configuring and troubleshooting Flexconnect and Office Extend

- 3.8 Configuring and troubleshooting Mesh
- 3.9 Implement RF management
 - 3.9.a Static RF management
 - 3.9.b Automatic RF management
 - 3.9.c CleanAir
 - 3.9.d Data rates
- 3.10 Configuring and troubleshooting WLC control plane security
 - 3.10.a AAA
 - 3.10.b CPU ACLs
 - 3.10.c Management via wireless interface
 - 3.10.d Management via dynamic interface
- 3.11 Configuring and troubleshooting mobility
 - 3.11.a L2/L3 roaming
 - 3.11.b Multicast optimization
 - 3.11.c Mobility group scaling
 - 3.11.d Inter-release controller mobility
 - 3.11.e New mobility
 - 3.11.f Mobility anchoring
- 3.12 Configuring and troubleshooting multicast

- 4.0 Configure and Troubleshoot a Unified Deployment Model (Converged) (17%)**
- 4.1 Configuring and controlling management access
- 4.2 Configuring and troubleshooting Interfaces
- 4.3 Configuring and troubleshooting lightweight APs
 - 4.3.a dot1x
 - 4.3.b AP authentication / authorization
 - 4.3.c Logging
 - 4.3.d Local / global configuration
- 4.4 Configuring and troubleshooting high availability and redundancy
 - 4.4.a Clients
 - 4.4.b APs
 - 4.4.c WLCs
- 4.5 Configuring and troubleshooting wireless segmentation
 - 4.5.a RF profiles
 - 4.5.b AP groups
- 4.6 Configuring and Troubleshooting wireless security policies
 - 4.6.a WLANs
 - 4.6.b L2/L3 security
 - 4.6.c Rogue policies
 - 4.6.d Local EAP
 - 4.6.e ACLs
 - 4.6.f Certificates
- 4.7 Implement RF management
 - 4.7.a Static RF management
 - 4.7.b Automatic RF management
 - 4.7.c CleanAir
 - 4.7.d Data rates
- 4.8 Configuring and troubleshooting WLC control plane security
 - 4.8.a AAA
 - 4.8.b Basic control plane policing
- 4.9 Configuring and troubleshooting mobility
 - 4.9.a L2/L3 roaming
 - 4.9.b Multicast optimization
 - 4.9.c Mobility group scaling
 - 4.9.d Inter-release controller mobility

- 4.9.e Mobility anchoring
- 4.9.f SPG
- 4.9.g MC/MA
- 4.10 Configuring and troubleshooting multicast

- 5.0 Configure and Troubleshoot Security & Identity Management (15%)**
- 5.1 Configure and troubleshoot identity management
 - 5.1.a Basic PKI for dot1x and webauth
 - 5.1.b External identity sources (AD, LDAP)
- 5.2 Configure and troubleshoot AAA policies
 - 5.2.a Client authentication and authorization
 - 5.2.b Management authentication and authorization
 - 5.2.c Client profiling and provisioning
 - 5.2.d RADIUS attributes
 - 5.2.e CoA
- 5.3 Configure and troubleshoot guest management
 - 5.3.a Local web authentication
 - 5.3.b Central web authentication
 - 5.3.c Basic sponsor policy

- 6.0 Configure and Troubleshoot Prime Infrastructure and MSE (10%)**
- 6.1 Configure and troubleshoot management access
 - 6.1.a AAA
 - 6.1.b Virtual domain
- 6.2 Perform basic operations
 - 6.2.a Create and deploy templates
 - 6.2.b Operate maps
 - 6.2.c Import infrastructure devices
 - 6.2.d High availability
 - 6.2.e Audits
 - 6.2.f Client troubleshooting
 - 6.2.g Notification receivers
 - 6.2.h Reports
- 6.3 Perform maintenance operations
 - 6.3.a Background tasks
 - 6.3.b SW image management
- 6.4 Security management
 - 6.4.a Understand rogue management
 - 6.4.b Manage alarms and events
 - 6.4.c Understand security index
- 6.5 Implement and troubleshoot MSE
 - 6.5.a Management access
 - 6.5.b Network services
 - 6.5.b [i] Location
 - 6.5.b [ii] CMX
 - 6.5.b [iii] CleanAir
 - 6.5.b [iv] WIPS
 - 6.5.c NMSP
- 6.6 Integrate ISE
- 6.7 Integrate netflow

- 7.0 Configure and Troubleshoot WLAN media and application services (13%)**
- 7.1 Configure and troubleshoot voice over wireless
 - 7.1.a QoS profiles
 - 7.1.b EDCA

- 7.1.c WMM
- 7.1.d BDRL
- 7.1.e Admission control
- 7.1.f MQC
- 7.2 Configuring and troubleshooting video and media
 - 7.2.a Mediastream
 - 7.2.b Multicast-direct
 - 7.2.c Admission control
- 7.3 Configuring and troubleshooting mDNS
 - 7.3.a mDNS proxy
 - 7.3.b Service discovery
 - 7.3.c Service filtering
- 7.4 Configuring and troubleshooting AVC and netflow