



## JNCIE-ENT Exam Objectives (Exam: JPR-943)

This list is intended to provide a general view of the skill sets required to successfully complete the JNCIE-ENT exam.

### System Services and Security

- System Services
  - NTP
  - Syslog
  - sFlow
  - Authentication and authorization
  - Configuring archival
  - RPM
  - PoE
- Securing the Control Plane
  - Stateless firewall configuration

### Interfaces

- Implementation of Interfaces
  - Aggregated Ethernet
  - VRRP
  - Ethernet OAM
  - GRE tunnels
  - BFD
  - Logical tunnel interfaces

### Ethernet Switching

- Spanning Tree Protocol
  - Multiple CIST
  - MSTP/VSTP/RSTP
  - xSTP interoperability
  - Multiple topologies
  - Optimization
- VLANs
  - VLAN switching and trunking

- Q-in-Q
- IP Telephony
- Private VLANs
- Voice VLANs
- Virtual Chassis
  - Master determination
  - Add/remove members
  - VCP and VCEP interfaces
  - Split detection
- Security features
  - Port security features
  - Dynamic ARP inspection with DHCP snooping
  - Layer 2 firewall filters
  - MAC table filtering

### **IGPs**

- OSPF
  - Multi-area OSPF topologies
  - Filter and summarize routes
  - Network and link types
  - Route selection process
  - BFD
  - Redistribution
  - IPv6

### **BGP**

- Implementation and Troubleshooting
  - Routing policy
  - Route selection
  - 2-byte and 4-byte AS
  - Multi-homed stub-AS
  - BFD

### **Protocol-Independent Routing**

- Load Balancing
  - Hash key
  - Per flow
- Filter-based Forwarding
  - Based on Layer 4
  - Based on IFL

- Configuring Routes

- Aggregate
- Static
- Generated
- Policies

- **Multicast**

- Implementation of Multicast
  - Shared tree and source tree
  - Designated router
  - RPF table manipulation
- SSM
  - Extend the group range
  - SSM mapping
- RP Redundancy
  - Anycast RP (PIM and MSDP)
  - BSR

- **Class of Service**

- Implementation
  - Loss priority
  - Rewrite rules
  - Shaping and policing
  - Scheduling
  - BA and MF classification
  - Drop profiles

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