Enterprise Routing and Switching Professional (JNCIP-ENT)

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Career Catalyst Course

Digital Mastery Awaits

Expert-Led Instruction

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Course Modules

1. **Describe the concepts, operation, or functionality of IGPs**
   - IS-IS
   - OSPFv2 and OSPFv3
   - Routing Policy
   - Given a scenario, nowledge of how to configure, tshoot IGPs

2. **Describe the concepts, operation, or functionality of BGP**
   - BGP route selection process
   - Next hop resolution
   - BGP attributes: concept and operation
   - BGP communities
   - Load balancing - multipath, multihop, forwarding table
   - NLRI families: inet and inet6
   - Advanced BGP options

3. **Demonstrate knowledge of how to configure, troubleshoot BGP**
   - Implement BGP routing policy

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4. **Operation, or functionality of IP multicast**
   - IP multicast, multicast addressing IP multicast traffic flow
   - Any-Source Multicast (ASM) vs. Source-Specific Multicast (SSM)
   - RPF - concept and operation
   - IGMP, IGMP snooping
   - PIM sparse-mode
   - Rendezvous point (RP) - concept, operation, discovery,
   - election
   - Anycast RP
   - MSDP
   - Routing policy and scoping

5. **Demonstrate knowledge of how to config, tshoot, IP multicast**
   - IGMP, PIM-SM (including SSM)
   - Implement IP multicast routing policy

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6. **Operation or functionality of advanced Ethernet switching**
   - Filter-based VLANs
   - Private VLANs
   - Dynamic VLAN registration using MVRP
   - Tunnel Layer 2 traffic through Ethernet networks
   - Layer 2 tunneling using Q-in-Q and L2PT

7. **Knowledge of how to config, tshoot, advanced Ethernet switchng**
   - Filter-based VLANs
   - Dynamic VLAN registration using MVRP
   - Tunnel Layer 2 traffic through Ethernet networks
   - Layer 2 tunneling using Q-in-Q and L2PT

8. **Describe the operation of various Layer 2 authentication**
   - Authentication process flow
   - 802.1x - concepts and functionality
   - MAC RADIUS
   - Captive portal
   - Server fail fallback
   - Guest VLAN
   - Considerations when usg multiple authntictn/access ctrl methods

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9. **Operation of features that facilitate IP telephony deployments**
   - Power over Ethernet (PoE)
   - LLDP and LLDP-MED
   - Voice VLAN

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10. Operation, or functionality of Junos CoS for Layer 2/3 networks

- CoS processing on Junos devices
- CoS header fields
- Forwarding classes
- Classification
- Packet loss priority
- Policers
- Schedulers
- Drop profiles
- Shaping
- Rewrite rules

11. Operation, or functionality of Junos EVPN

- Route types (e.g., Type 1, 2 3)
- VXLAN
- Multi-homing (e.g., active route types)

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