

Data Center Associate (JNCIA-DC)



Online Course

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- ✓ Master New Skills
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Course Modules

1. Identify concepts & general features of Data Centre architectures

- Traditional Architectures (multi-tier)
- IP-Fabric Architectures (Spine/Leaf)
- Layer 2 and Layer 3 strategies
- Overlay Network versus Underlay Network (Very Basic)
- EVPN/VXLAN basics/purpose



2. Concepts, operation, or functionality of Layer 2 switching

- Ethernet switching/bridging concepts and operations

3. Identify the concepts, benefits, or functionality of VLANs

- Port modes
- VLAN Tagging
- IRB

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4. Identify the concepts, benefits, or functionality of Layer 2 Security

- MACsec
- MAC address control/filtering
- Storm Control



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5. Config, monitor, or tshoot Layer 2 switching, VLANs, or security

- Ethernet switching/bridging
- VLANs
- Layer 2 security features

6. Concepts or functionality of various protocol-independent routing components

- Static, aggregate, and generated routes
- Multicast addresses
- Routing instances, including RIB groups
- Load balancing
- Filter-based forwarding



7. Configure or tshoot various protocol-independent routing components

- Static, aggregate, and generated routes
- Load balancing

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8. Identify the concepts, operation, or functionality of OSPF

- Link-state database
- OSPF packet types
- Router ID
- Adjacencies and neighbours
- Designated router (DR) and backup designated router (BDR)
- OSPF area and router types
- LSA packet types



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9. Describe how to configure, monitor, or troubleshoot OSPF

- Areas, interfaces, and neighbours
- Additional basic options
- Routing policy application
- Troubleshooting tools

10. Identify the concepts, Operation, or functionality of BGP

- BGP basic operation
- BGP message types
- Attributes
- Route/path selection process
- IBGP and EBGP functionality and interaction

11. Describe how to configure, monitor, or troubleshoot BGP

- Groups and peers
- Additional basic options
- Routing policy application

12. Concepts, benefits, apps, or requirements of high availability

- Link aggregation groups (LAG)
- Graceful restart (GR)
- Bidirectional Forwarding Detection (BFD)
- Virtual Chassis



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13. How to configure, monitor, or tshoot high avlbty components

- Link aggregation groups (LAG)
- Graceful restart (GR)
- Bidirectional Forwarding Detection (BFD)



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in terms of time management,
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