Implementing Cisco Data Center Unified Fabric (642-997)

Exam Description: The 642-997 DCUFI Implementing Cisco Data Center Unified Fabric exam is associated with the CCNP® DC certification and with the Cisco Unified Fabric Support Specialist. This 90-minute, 65–75 question exam tests a candidate's knowledge of implementing Cisco Data Center Unified Fabric architecture, security, management, high availability, virtualization in the network. The exam is closed book and no outside reference materials are allowed.

The following topics are general guidelines for the content likely to be included on the exam. However, other related topics may also appear on any specific delivery of the exam. In order to better reflect the contents of the exam and for clarity purposes, the guidelines below may change at any time without notice.

14%  1.0  Describe the Cisco Unified Fabric Products in a Cisco Data Center Network Architecture
   1.1  Describe the Cisco data center network architecture from a Cisco Nexus Series Switch point of view
   1.2  Describe the Cisco SAN network architecture from a Cisco MDS SAN Switch point of view
   1.3  Describe Fibre Channel over Ethernet
   1.4  Describe the Cisco Nexus product family
   1.5  Describe the key high-availability features of Cisco NX-OS
   1.6  Describe the key unified fabric features of Cisco NX-OS
   1.7  Describe the key scalability features of Cisco NX-OS
   1.8  Describe the features and benefits of the major Cisco Nexus line card modules
   1.9  Describe the network infrastructure connection to the Cisco UCS platform

20%  2.0  Implement Security on Cisco Unified Fabric Products in a Cisco Data Center Network Architecture
   2.1  Implement CTS
   2.2  Implement integrated security features
   2.3  Implement AAA
   2.4  Implement RBAC
   2.5  Implement zoning

8%   3.0  Manage the Unified Fabric in a Cisco Data Center Network Architecture
   3.1  Implement CMP
   3.2  Manage the Unified Fabric using DCNM SAN
   3.3  Manage the Unified Fabric using DCNM LAN
   3.4  Upgrade EPLD
   3.5  Implement SNMP in the Unified Fabric environment
   3.6  Implement xml
   3.7  Implement DeviceManager
   3.8  Implement netflow
   3.9  Implement SPAN
3.10 Implement Callhome
3.11 Implement EEM
3.12 Implement licensing
3.13 Implement cfs
3.14 Implement scheduler

12% 4.0 Implement High Availability Features on Cisco Unified Fabric Products in a Cisco Data Center Architecture
4.1 Implement FHRP
4.2 Implement Graceful Restart
4.3 Implement non-stop forwarding
4.4 Implement Port-channels
4.5 Implement vPC
4.6 Implement FabricPath
4.7 Upgrade NX-OS using ISSU

6% 5.0 Implement Cisco Unified Fabric Network Features and Functionality in a Cisco Data Center Environment
5.1 Implement QoS
5.2 Implement L2 functionality
5.3 Implement L3 functionality
5.4 Implement multicast functionality
5.5 Implement LISP
5.6 Implement OTV
5.7 Implement MPLS

20% 6.0 Implementing Network Virtualization in Cisco Data Center Environment
6.1 Implement VDC
6.2 Implement adapter-fex
6.3 Implement vm-fex
6.4 Integrate Nexus with vCenter manager
6.5 Implement vn-link

20% 7.0 Implement Storage features in a Cisco Data Center environment
7.1 Implement zoning
7.2 Implement npiv
7.3 Implement npv
7.4 Implement vsans
7.5 Implement FCoE
7.6 Implement multihop FCoE
7.7 Describe shared vs. dedicated ports
7.8 Describe the FibreChannel protocol
7.9 Implement DCB features
7.10 Implement CFS (Cisco Fabric Services)