

CCNP Data Center Certification Prep: Cisco UCS Training

This Cisco training covers how to deploy and operate, secure and maintain the Cisco Unified Computing System (UCS) up to the standards of the CCNP Data Center exam.

[CBT Nuggets course material](#) →

WEEK 1

Identify the UCS Value Proposition

158 min.

Intro	1
Network Integration	13
Stateless Computing	12
Unified Fabric and Storage	12
Ease of Management	8
Scalable Architecture	7
Review and Quiz	4

Identify UCS Infrastructure Hardware Models

Overview	1
Intro	1
6400 Fabric Interconnects	12
6300 Fabric Interconnects	9
6200 Fabric Interconnects	8
IO Modules	10
Chassis and UCS Mini	10
Review and Quiz	4

Identify UCS Server Hardware Models

Overview	1
Intro	1
B-Series Blade Servers	13
X-Series Modular System	11
C-Series Rack Servers	9
S-Series Storage Servers	9

WEEK 2

157 min.

HX-Series HCI Servers	5
Review and Quiz	4

Evaluate UCS Ethernet Connectivity

Overview	1
Intro	1
Ethernet End Host Mode	8
Pinning and Redundancy	11
VLANs and Broadcasts	9
Deja Vu and RPF Checks	6
Bandwidth and Oversubscription	9
Review and Quiz	4

Evaluate UCS Network Device Virtualization

Overview	1
Intro	1
Cisco VIC	9
Cisco VIC Visualization	5
VN-Tag	8
vNIC Networking	8
vNICs and Stateless Computing	9
Review and Quiz	6

Design UCS Network Pathing

Overview	1
Intro	1
IOM Connectivity	11
C-Series Connectivity	9

Chassis and FEX Connectivity Policy	6
Fabric Communication	9
UCS Traffic Engineering	12

WEEK 3

156 min.

Review and Quiz	5
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Explain UCS Network Configuration

Overview	1
Intro	1
Resource Pools	15
Resource Pool Demo	5
VLAN Groups and LAN Pin Groups	10
vNICs and vNIC Templates	12
vNIC and vNIC Template Demo	4
Review and Quiz	3

Perform Basic UCS Configuration

Overview	1
Intro	1
UCS Platform Emulator	8
Fabric Interconnect Initial Configuration	11
Configure FI Ports	10
Configure VLAN Groups	8
NX-OS Verification	7
Review and Quiz	3

Create Network Device Virtualization Policies

Overview	1
Intro	1
VIC Bandwidth and Expansion	13
VIC and IOM Connectivity	15
Multiple VICs	11
UCSM Demo	7

WEEK 4

154 min.

Review and Quiz	4
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Explain UCS Quality of Service

Overview	1
Intro	1
UCS Classification and Marking	9
UCS Congestion Management	10
QoS System Class and Adapter Policies	9
QoS Demo	8
QoS Design Principles	14
Review and Quiz	3

Evaluate UCS Storage Connectivity

Overview	1
Intro	2
SAN Architecture	12
FC Fabrics and VSANs	11
FI Mode of Operation for SAN	9
Storage vHBAs and vNICs	10
Review and Quiz	4

Plan for FC and iSCSI Deployment in UCS

Overview	1
Intro	1
FC Uplinks	12
FCOE and Unified Uplinks	10
iSCSI VLAN and Isolation	10
SAN Elimination	9

WEEK 5

113 min.

SAN Boot	7
Review and Quiz	4

Plan UCS Service Profile Policies

Overview	1
Intro	1
Service Profile Overview	12
UUID Suffix Pools	6
Disk Policies	7
Maintenance Policies	7
Host Firmware Packages	7
Service Profile and Template Design	9
Review and Quiz	4

Design UCS Solutions

Overview	1
Intro	1
UCS Connections and Cabling	14
Designing Network Configurations	9
Data Sheets and Spec Sheets	9

