Implementing Cisco Data Center Core Technologies (DCCOR)

COURSE OVERVIEW
The Implementing and Operating Cisco Data Center Core Technologies (DCCOR) v1.1 course helps you prepare for the Cisco® CCNP® Data Center and CCIE® Data Center certifications for advanced-level data center roles. In this course, you will master the skills and technologies you need to implement data center compute, LAN, and SAN infrastructure. You will also learn the essentials of automation and security in data centers. You will gain hands-on experience deploying, securing, operating, and maintaining Cisco data center infrastructure including: Cisco MDS Switches and Cisco Nexus Switches; Cisco Unified Computing System™ (Cisco UCS®) B-Series Blade Servers, and Cisco UCS C-Series Rack Servers. This course also earns you 64 Continuing Education (CE) credits towards recertification.

This course, including the self-paced material, prepares you to take the 350-601 Implementing Cisco Data Center Core Technologies (DCCOR) exam.

WHO WILL BENEFIT FROM THIS COURSE?
- Network designers
- Network administrators
- Network engineers
- Systems engineers
- Data center engineers
- Consulting systems engineers
- Technical solutions architects
- Field engineers
- Cisco integrators and partners
- Server administrator
- Network manager

PREREQUISITES
To fully benefit from this course, you should have the following knowledge and skills:
- Familiarity with Ethernet and TCP/IP networking
- Familiarity with SANs
- Familiarity with Fibre Channel protocol
- Identify products in the Cisco Data Center Nexus and Cisco MDS families
- Understanding of Cisco Enterprise Data Center architecture
- Understanding of server system design and architecture
- Familiarity with hypervisor technologies (such as VMware)

These Cisco courses are recommended to help you meet these prerequisites:
- Implementing and Administering Cisco Solutions (CCNA)
- Understanding Cisco Data Center Foundations (DCFNDU)
COURSE OBJECTIVES
After taking this course, you should be able to:

- Implement routing and switching protocols in Data Center environment
- Implement overlay networks in data center
- Introduce high-level Cisco Application Centric Infrastructure (Cisco ACI™) concepts and Cisco Virtual Machine manager (VMM) domain integration
- Describe Cisco Cloud Service and deployment models
- Implement Fibre Channel fabric
- Implement Fibre Channel over Ethernet (FCoE) unified fabric
- Implement security features in data center
- Implement software management and infrastructure monitoring
- Implement Cisco UCS Fabric Interconnect and Server abstraction
- Implement SAN connectivity for Cisco Unified Computing System™ (Cisco UCS®)
- Describe Cisco HyperFlex™ infrastructure concepts and benefits
- Implement Cisco automation and scripting tools in data center
- Evaluate automation and orchestration technologies

COURSE OUTLINE

- Implementing Data Center Switching Protocols*
- Spanning Tree Protocol
- Port Channels Overview
- Implementing First-Hop Redundancy Protocols*
- Hot Standby Router Protocol (HSRP) Overview
- Virtual Router Redundancy Protocol (VRRP) Overview
- Implementing Routing in Data Center*
- Open Shortest Path First (OSPF) v2 and Open Settlement Protocol (OSP) v3
- Border Gateway Protocol
- Implementing Multicast in Data Center*
- IP Multicast in Data Center Networks
- Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD)
- Implementing Data Center Overlay Protocols
- Cisco Overlay Transport Virtualization
- Virtual Extensible LAN
- Implementing Network Infrastructure Security*
- User Accounts and Role Based Access Control (RBAC)
- Authentication, Authorization, and Accounting (AAA) and SSH on Cisco NX-OS
- Describing Cisco Application-Centric Infrastructure
- Cisco ACI Overview, Initialization, and Discovery
- Cisco ACI Management
- Describing Cisco ACI Building Blocks and VMM Domain Integration
- Tenant-Based Components
- Cisco ACI Endpoints and Endpoint Groups (EPG)
• Describing Packet Flow in Data Center Network*
• Data Center Traffic Flows
• Packet Flow in Cisco Nexus Switches
• Describing Cisco Cloud Service and Deployment Models
• Cloud Architectures
• Cloud Deployment Models
• Describing Data Center Network Infrastructure Management, Maintenance, and Operations*
• Time Synchronization
• Network Configuration Management
• Explaining Cisco Network Assurance Concepts*
• Need for Network Assurance
• Cisco Streaming Telemetry Overview
• Implementing Fibre Channel Fabric
• Fibre Channel Basics
• Virtual Storage Area Network (VSAN) Overview
• Implementing Storage Infrastructure Services
• Distributed Device Aliases
• Zoning
• Implementing FCoE Unified Fabric
• Fibre Channel over Ethernet
• Describing FCoE
• Implementing Storage Infrastructure Security*
• User Accounts and RBAC
• Authentication, Authorization, and Accounting
• Describing Data Center Storage Infrastructure Maintenance and Operations*
• Time Synchronization
• Software Installation and Upgrade
• Describing Cisco UCS Server Form Factors*
• Cisco UCS B-Series Blade Servers
• Cisco UCS C-Series Rack Servers
• Implementing Cisco Unified Computing Network Connectivity
• Cisco UCS Fabric Interconnect
• Cisco UCS B-Series Connectivity
• Implementing Cisco Unified Computing Server Abstraction
• Identity Abstraction
• Service Profile Templates
• Implementing Cisco Unified Computing SAN Connectivity
• iSCSI Overview
• Fibre Channel Overview
• Implementing Unified Computing Security
• User Accounts and RBAC
• Options for Authentication
• Introducing Cisco HyperFlex Systems*
• Hyper converged and Integrated Systems Overview
• Cisco HyperFlex Solution
• Describing Data Center Unified Computing Management, Maintenance, and Operations*
• Compute Configuration Management
• Software Updates
• Implementing Cisco Data Center Automation and Scripting Tools*
• Cisco NX-OS Programmability
• Scheduler Overview
• Describing Cisco Integration with Automation and Orchestration Software Platforms
• Cisco and Ansible Integration Overview
• Cisco and Puppet Integration Overview
• Describing Cisco Data Center Automation and Orchestration Technologies*
• Power On Auto Provisioning
• Cisco Data Center Network Manager Overview

* This section is self-study material that can be done at your own pace

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