DCCOR 350-601	
Course Name:	Implementing Cisco Data Center Core Technologies (350-601DCCOR)
Course Duration:	8 days (50 hours)
Requirements:	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) Recommendation: ● Implementing and Administering Cisco Solutions (CCNA) ● Understanding Cisco Data Center Foundations (DCFNDU)
Who should take 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

Syllabus Cosrse

- Implementing Data Center Switching Protocols
- Spanning Tree Protocol
- Port Channels Overview
- Virtual Port Channels Overview
- Implementing First-Hop Redundancy Protocols
- Hot Standby Router Protocol (HSRP) Overview
- Virtual Router Redundancy Protocol (VRRP) Overview
- First Hop Redundancy Protocol (FHRP) for IPv6
- 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)
- Multicast Distribution Trees and Routing Protocols
- IP Multicast on Cisco Nexus Switches
- 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
- Keychain Authentication
- First Hop Security
- Media Access Control Security
- Control Plane Policing
- Describing Cisco Application-Centric Infrastructure
- Cisco ACI Overview, Initialization, and Discovery
- Cisco ACI Management
- Cisco ACI Fabric Access Policies
- Describing Cisco ACI Building Blocks and VMM Domain Integration
- Tenant-Based Components
- Cisco ACI Endpoints and Endpoint Groups (EPG)
- Controlling Traffic Flow with Contracts
- Virtual Switches and Cisco ACI VMM Domains
- VMM Domain EPG Association

- Cisco ACI Integration with Hypervisor Solutions
- Describing Packet Flow in Data Center Network
- Data Center Traffic Flows
- Packet Flow in Cisco Nexus Switches
- Packet Flow in Cisco ACI Fabric
- 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
- Software Updates
- Network Infrastructure Monitoring
- 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
- SAN Port Channels Overview
- Fibre Channel Domain Configuration Process
- Implementing Storage Infrastructure Services
- Distributed Device Aliases
- Zoning
- N-Port Identifier Virtualization (NPIV) and N-Port Virtualization (NPV)
- Fibre Channel over IP
- Network Access Server (NAS) Concepts
- Storage Area Network (SAN) Design Options
- Implementing FCoE Unified Fabric
- Fibre Channel over Ethernet
- Describing FCoE
- FCoE Topology Options
- FCoE Implementation
- Implementing Storage Infrastructure Security
- User Accounts and RBAC
- Authentication, Authorization, and Accounting
- Fibre Channel Port Security and Fabric Binding
- Describing Data Center Storage Infrastructure Maintenance and Operations
- Time Synchronization

- Software Installation and Upgrade
- Storage Infrastructure Monitoring
- 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
- Cisco UCS C-Series Integration
- Implementing Cisco Unified Computing Server Abstraction
- Identity Abstraction
- Service Profile Templates
- Implementing Cisco Unified Computing SAN Connectivity
- iSCSI Overview
- Fibre Channel Overview
- Implement FCoE
- Implementing Unified Computing Security
- User Accounts and RBAC
- Options for Authentication
- Key Management
- Introducing Cisco HyperFlex Systems*
- Hyperconverged and Integrated Systems Overview
- Cisco HyperFlex Solution
- Cisco HyperFlex Scalability and Robustness
- Describing Data Center Unified Computing Management, Maintenance, and Operations
- Compute Configuration Management
- Software Updates
- Infrastructure Monitoring
- Cisco Intersight
- Implementing Cisco Data Center Automation and Scripting Tools
- Cisco NX-OS Programmability
- Scheduler Overview
- Cisco Embedded Event Manager Overview
- Bash Shell and Guest Shell for Cisco NX-OS
- Cisco Nexus API
- Describing Cisco Integration with Automation and Orchestration Software Platforms
- Cisco and Ansible Integration Overview
- Cisco and Puppet Integration Overview
- Python in Cisco NX-OS and Cisco UCS

- Describing Cisco Data Center Automation and Orchestration Technologies
- Power On Auto Provisioning
- Cisco Data Center Network Manager Overview
- Cisco UCS Director Fundamentals
- Cisco UCS PowerTool
- Configure Overlay Transport Visualization (OTV)
- Configure Virtual Extensible LAN (VXLAN)
- Explore the Cisco ACI Fabric
- Implement Cisco ACI Access Policies and Out-of-Band Management
- Implement Cisco ACI Tenant Policies
- Integrate Cisco ACI with VMware
- Configure Fibre Channel
- Configure Device Aliases
- Configure Zoning
- Configure NPV
- Configure FCoE
- Provision Cisco UCS Fabric Interconnect Cluster
- Configure Server and Uplink Ports
- Configure VLANs
- Configure a Cisco UCS Server Profile Using Hardware Identities
- Configure Basic Identity Pools
- Configure a Cisco UCS Service Profile Using Pools
- Configure an Internet Small Computer Systems Interface (iSCSI) Service Profile
- Configure Cisco UCS Manager to Authenticate Users with Microsoft Active Directory
- Program a Cisco Nexus Switch with Python