Introducing Cisco Data Center Technologies

Duration: 5 Days   **Course Code: DCICT**   **Version: 6.2**   **Delivery Method: Virtual Learning**

Overview:

Introducing Cisco Data Center Technologies provides an introduction to Cisco technologies and products that are deployed in the data center. Network virtualization, network technologies, unified computing, automation and orchestration and the Cisco Application-Centric Infrastructure (Cisco ACI) are all included. As this is an introductory level course the knowledge that is provided is targeted at individuals who need to perform basic configuration tasks. The hands-on lab exercises focus on configuring features on Cisco Nexus Operating System (Cisco NX-OS), Cisco Unified Computing System (Cisco UCS) and Cisco UCS Director.

This course is worth 30 Credits in the Continuing Education Program

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

Entry-level data center personnel who need to understand the primary technologies used in a Cisco Data Center environment.

Objectives:

- **After completing this course you should be able to:**
- Describe and configure Cisco UCS
- Describe and configure Cisco data center virtualization
- Describe and configure Cisco data center networking
- Describe and configure Cisco automation and orchestration
- Describe and verify Cisco ACI

Prerequisites:

Attendees should meet the following prerequisites:

- Good understanding of networking protocols **ICND1** and **DCICN** recommended
- Good understanding of the VMware environment

Testing and Certification

Recommended as preparation for the following exams:

- **200-155 - DCICT-** Introducing Cisco Data Center Technologies This is one of two exams required for the Cisco CCNA Data Center Certification

Follow-on-Courses:

The following courses are recommended for further study:

- **DCII -** Implementing Cisco Data Center Infrastructure
- **DCUCI -** Implementing Cisco Data Center Unified Computing
- **DCVAI -** Implementing Cisco Data Center and Virtualisation and Automation
- **DCIT -** Troubleshooting Cisco Data Center Infrastructure
- **DCID -** Designing Cisco Data Center Infrastructure

Content:

Cisco Data Center Network Virtualization

- Describing Switch Virtualization
- Describing Machine Virtualizattion
- Describing Network Virtualization

Cisco Data Center Network Technologies Configuration

- Describing Cisco FabricPath
- Describing Cisco Fabric Extender
- Describing Port Channels and Virtual Port Channels
- Describing Cisco Unified Fabric

Cisco Unified Computing System

- Describing Cisco UCS Components
- Describing Cisco UCS RBAC
- Deploying Servers in Cisco UCS

Data Center Automation and Orchestration

- Using Application Programming Interfaces
- Cloud Computing
- Describing Cisco UCS Director
- Using Cisco UCS Director for Orchestration

Cisco Application-Centric Infrastructure

- Describing Cisco ACI
- Describing Cisco ACI Traffic Forwarding
- Programming and Orchestrating Cisco ACI

Labs

- Lab 1: Configure Virtual Routing and Forwarding by Using SSH
- Lab 2: Explore the Elements of Virtual Device Contexts
- Lab 3: Install VMware ESXi and vCenter
- Lab 4: Configure Cisco FabricPath
- Lab 5: Configure the Cisco Nexus 2000 Fabric Extender
- Lab 6: Configure Virtual Port Channels
- Lab 7: Configure Virtual Port Channels with FEX :
- Lab 8: Configure Unified Ports on Cisco Nexus Switch and Implement FCoE
- Lab 9: Explore Cisco UCS Server Environment
- Lab 10: Configure Local RBAC
- Lab 11: Configure Cisco UCS to Boot Servers from SAN
- Lab 12: Configure Cisco NX-OS with APIs
- Lab 13: Explore the Management Information Tree of the Cisco UCS Manager XML API
- Lab 14: Configure User Accounts in Cisco UCS Director
- Lab 15: Add Virtual and Physical Accounts to Cisco UCS Director
- Lab 16: Customize Cisco UCS Director
- Lab 17: Explore Cisco UCS Director Monitoring Capabilities
- Lab 18: Use Cisco UCS Director Orchestration Features

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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