
Troubleshooting Cisco Data Center Unified Fabric

Duration: 3 Days **Course Code: DCUFT**

Overview:

This course is designed for Network Engineers who install, implement, maintain, and troubleshoot the Cisco Nexus 7000 and 5000 Series Switches, the Cisco Nexus 2000 Series Fabric Extenders, and Cisco MDS Multilayer Fabric Switches. The course covers the key components and procedures that are needed to troubleshoot and resolve common issues with the Cisco Nexus 7000, 5000, and MDS switches and the Nexus 2000 Series Fabric Extenders in the network and SAN environments.

Target Audience:

This course is designed for: Engineers involved in the deployment and troubleshooting of Nexus solutions.

Objectives:

- Upon completing this course, the learner will be able to meet these overall objectives:
 - Describe the troubleshooting tools and methodologies that are available from the CLI and in Cisco DCNM that are used to identify and resolve issues in a Cisco Data Center network architecture
 - Identify and resolve issues that are related to VLANs and PVLANS
 - Identify and resolve issues that are related to port channels and vPCs
 - Identify and resolve issues that are related to Cisco FabricPath
 - Identify and resolve issues that are related to OTV
 - Identify and resolve issues that are related to Fibre Channel interface operation
 - Identify and resolve issues that are related to Fibre Channel switching when a Cisco Nexus switch is used in switched mode or in NPV mode
 - Identify and resolve issues that are related to FCoE in the Cisco Data Center architecture
 - Identify and resolve issues that are related to Cisco Nexus 7000 Series Switches
 - Identify and resolve issues that are specific to Cisco Nexus 5000 Series Switches
 - Identify and resolve issues that are specific to Cisco Nexus 2000 Series Fabric Extenders
 - Identify and resolve issues that are specific to Cisco MDS Switches
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Prerequisites:

The knowledge and skills that a learner must have before attending this course are as follows:

- Recommended attendance of a Fibre Channel Protocol class or equivalent experience
- To gain the prerequisite skills and knowledge, Cisco strongly recommends the knowledge of the following courses:
- Implementing Cisco Storage Network Solutions (**ICSNS**)
 - Implementing Cisco Data Center Unified Fabric (**DCUFI**)
- OR
- Implementing the Cisco Nexus 7000 (**DCNX7K**)
 - Implementing the Cisco Nexus 5000 (**DCNX5K**)
 - Configuring Cisco MDS 9000 Switches (**DCMDS**)

Testing and Certification

Recommended as Preparation for:

- 642-980 - Troubleshooting Cisco Data Center Unified Fabric (DCUFT)
- Delegates looking to achieve the Cisco Certified Network Professional (**CCNP**) **Data Center** will also need the DCUCI and DCUFI exam plus DCUCT.

DCUFT is also one of the exams required for the **Data Center Unified Fabric Technology Partner Specialization** and **Cisco Data Center Architecture Specialization** for Channel Partners

Follow-on-Courses:

Delegates looking to achieve their CCNP for DC will also require:

- **DCUFI** - Implementing Cisco Data Center Unified Fabric
- **DCUCI**- Implementing Cisco Data Center Unified Computing

Plus

- **DCUCT** - Troubleshooting Cisco Data Center Unified Computing

Delegates looking for Cisco Specialist Certifications will also need :

- **DCUFI** - Cisco Data Center Unified Fabric Support Specialist

Content:

Tools and Methodologies of Troubleshooting

- Understanding CLI Troubleshooting Tools
- Understanding Cisco DCNM Troubleshooting Tools

Layer 2 Issue Troubleshooting

- Troubleshooting VLANs and PVLANS
- Troubleshooting Port Channels and vPCs
- Troubleshooting Cisco FabricPath
- Troubleshooting OTV

SAN Switching Issue Troubleshooting

- Troubleshooting Fibre Channel Interfaces
- Troubleshooting Fibre Channel Fabric Services
- Troubleshooting NPV Mode

FCoE Troubleshooting

- Troubleshooting FCoE
- Troubleshooting DCBX

Platform-Specific Issue Troubleshooting

- Troubleshooting the Cisco Nexus 7000
- Troubleshooting Cisco Nexus 5000 Series and Nexus 5500 Platform Switches
- Troubleshooting Cisco Nexus 2000 Series Fabric Extenders
- Troubleshooting Cisco MDS Switches

Further Information:

For More information, or to book your course, please call us on +254 713 027 191

training@clclearningafrica.com

www.clclearningafrica.com

Computer Learning Centre 2nd Floor Museum Hill Centre, Muthithi Road, Westlands, Nairobi, Kenya