# Troubleshooting Cisco Data Center Infrastructure Training

Duration: **5 Day**

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## Overview

The Troubleshooting Cisco Data Center Infrastructure (DCIT) course builds essential skills in diagnosing and resolving issues within Cisco data center environments. Participants will gain hands-on experience troubleshooting Cisco Unified Fabric, Cisco Unified Computing System (Cisco UCS), and Cisco Application-Centric Infrastructure (Cisco ACI).

This training covers key troubleshooting techniques for Cisco Nexus switches, Cisco Multilayer Director Switches (MDS), Cisco Fabric Extenders (FEXs), and Cisco UCS solutions. Learners will also explore tools and methodologies to identify and resolve LAN, SAN, and automation-related issues in Cisco data centers.

This course awards 50 Continuing Education (CE) credits for Cisco recertification and prepares participants for the 300-615 DCIT certification exam.

## Prerequisites

To fully benefit from this course, participants should have:

- Experience configuring, securing, and maintaining LAN and SAN environments using Cisco Nexus and MDS switches
- Familiarity with Cisco UCS configuration and management
- Knowledge of Cisco ACI architecture and implementation

### Target audience

This course is designed for IT professionals responsible for troubleshooting Cisco data center environments, including:

- Network designers
- Network administrators
- Network engineers
- Systems engineers
- Consulting systems engineers
- Technical solutions architects
- Server administrators
- Network managers
- Cisco integrators and partners

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## What You Will Learn

By the end of this course, learners will be able to:

- Apply troubleshooting methodologies to Cisco data center networks
- Use Cisco command-line interface (CLI) tools to diagnose and resolve network issues
- Identify and resolve VLAN and private VLAN (PVLAN) issues
- Troubleshoot port channels, virtual port channels, and VXLAN
- Diagnose and fix routing and high-availability protocol issues
- Implement troubleshooting procedures for LAN security features
- Resolve hardware and software issues affecting individual Cisco devices
- Identify and troubleshoot Fibre Channel interface operations and fabric services
- Troubleshoot Fibre Channel over Ethernet (FCoE) and N-Port Virtualization (NPV) mode
- Perform advanced troubleshooting for Cisco UCS B-Series and C-Series servers
- Identify tools and techniques for troubleshooting Cisco ACI
- Diagnose issues related to automation, scripting, and programmability in Cisco data center environments