



CISCO TRAINING

# Troubleshooting Cisco Data Center Infrastructure

*Master advanced troubleshooting for Cisco Data Center Infrastructure. Quickly resolve complex issues and maintain peak performance.*

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DURATION

**2 hours**

LEVEL

**Advanced**

FORMAT

**Instructor-Led**

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- Globally Recognized Certification
  - Expert-Led Hands-On Training
  - Flexible Scheduling

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | [www.computer-pride.co.ke](http://www.computer-pride.co.ke)

## COURSE OVERVIEW

This advanced 'Troubleshooting Cisco Data Center Infrastructure' course from Computer Pride is meticulously designed to equip IT professionals with the expert-level skills needed to diagnose and resolve complex issues within modern Cisco data center environments. Spanning critical technologies such as Cisco Nexus switches, Cisco Unified Computing System (UCS), and core data center networking protocols, participants will delve into systematic troubleshooting methodologies. The course emphasizes practical problem-solving across various layers of the data center, from physical infrastructure and network connectivity to virtualization components and storage area networks, ensuring robust operational stability and optimal performance. By mastering the techniques covered in this program, you will significantly reduce downtime, improve incident response times, and enhance the overall reliability of mission-critical data center services. This certification empowers network engineers, data center specialists, and support personnel to proactively identify root causes of failures, implement effective solutions, and maintain high availability in dynamic Cisco environments, directly contributing to organizational efficiency and continuity. It's an essential step for anyone looking to solidify their expertise in data center management and elevate their career trajectory in specialized IT infrastructure roles.

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| Duration | 2 hours  |
| Level    | Advanced |
| Vendor   | Cisco    |

## COURSE CURRICULUM

### 01 Module 1: Foundations of Data Center Troubleshooting

- Systematic Troubleshooting Methodologies (Top-down, Bottom-up, Divide and Conquer)
- Cisco NX-OS and UCS CLI Essentials for Troubleshooting
- Understanding Data Center Architecture Components and Interdependencies

### 02 Module 2: Troubleshooting Cisco Nexus Switching Issues

- Diagnosing VLAN, STP, and vPC Configuration Problems
- Troubleshooting OSPF and BGP Routing in Nexus Environments
- Resolving Fabric Extender (FEX) and QoS-related Issues
- Analyzing Packet Flow and Latency with Nexus Tools

### 03 Module 3: Troubleshooting Cisco UCS Infrastructure

- Diagnosing UCS Manager Connectivity and Policy Issues
- Troubleshooting Server Profile, Service Profile, and vNIC/vHBA Configuration
- Identifying Common Hardware and Firmware Faults in UCS Domains
- UCS Logging and Monitoring Tools for Problem Isolation

### 04 Module 4: Advanced Data Center Connectivity and Storage Troubleshooting

- Troubleshooting Fiber Channel over Ethernet (FCoE) and SAN Connectivity
- Diagnosing IP Storage (iSCSI, NFS) Network Problems
- Resolving Data Center Interconnect (DCI) Challenges
- Utilizing SNMP, Syslog, and NetFlow for Proactive Monitoring and Anomaly Detection

## CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Senior Data Center Network Troubleshooting Engineer**
- > **Cisco UCS and Nexus Support Specialist**
- > **Enterprise Network Operations Center (NOC) Tier 2/3 Data Center Analyst**

## FREQUENTLY ASKED QUESTIONS

### **Q: What are the recommended prerequisites for effectively undertaking the 'Troubleshooting Cisco Data Center Infrastructure' course?**

This advanced course is ideal for professionals with a solid foundation in Cisco data center networking, including experience with Cisco Nexus switches (NX-OS) and Cisco UCS. A strong understanding of networking protocols (OSPF, BGP, STP, VLANs) and basic knowledge of storage networking (SAN, FCoE) is highly recommended to maximize your learning experience and grasp the advanced troubleshooting techniques discussed.

### **Q: How will this course enhance my ability to troubleshoot real-world data center outages and performance issues?**

This course provides a structured approach to problem-solving within complex Cisco data center environments. You will learn to apply systematic methodologies, utilize advanced NX-OS and UCS diagnostic tools, and interpret critical logging information to pinpoint root causes of issues ranging from network connectivity and routing failures to UCS component malfunctions and storage path problems. The practical insights gained will enable you to reduce mean time to recovery (MTTR) and improve data center stability.

### **Q: Does this course cover troubleshooting for Cisco ACI (Application Centric Infrastructure) environments?**

While this course focuses primarily on traditional Cisco Data Center Infrastructure, including Nexus switches and UCS, it lays a strong foundation in core troubleshooting principles applicable across various data center technologies. Specific in-depth troubleshooting for Cisco ACI fabric will require specialized training beyond the scope of this particular course, though the fundamental methodologies and tools learned here provide a valuable conceptual framework.

## ABOUT COMPUTER PRIDE



**East Africa's Premier IT Training Center**

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

**15+**

Years of Excellence

**10,000+**

Professionals Trained

**50+**

Vendor Certifications

## READY TO ENROL?

Take the next step in your technology career.

### Location

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