

Troubleshooting Cisco Application Centric Infrastructure (DCACIT) v5.2 Course

Course Duration: 16 Hours

Course Code: DCACIT v5.2

1. Course Overview

The **Troubleshooting Cisco Application Centric Infrastructure (DCACIT) v5.2** course provides network professionals with the knowledge and skills required to identify, troubleshoot, and resolve issues in Cisco's Application Centric Infrastructure (ACI). This course focuses on understanding ACI fabric, monitoring techniques, fault management, and practical troubleshooting methodologies to ensure optimal network performance and reliability.

2. What You'll Learn?

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

- Understand ACI architecture and its components.
- Monitor ACI fabric health and performance.
- Identify and troubleshoot faults in the ACI environment.
- Use Cisco tools and commands for effective problem-solving.
- Apply best practices for maintaining ACI fabric stability.

3. Target Audience

This course is designed for:

- Network engineers and administrators managing Cisco ACI environments.
- IT professionals responsible for troubleshooting and optimizing network infrastructure.
- Individuals preparing for Cisco ACI certification exams.

4. Pre-Requisites

To attend this course, participants should have:

- A solid understanding of networking fundamentals (TCP/IP, VLANs, routing, and switching).
- Experience with Cisco ACI architecture and its deployment.
- Familiarity with Cisco CLI commands and basic troubleshooting techniques.

5. Course Content

Module 1: Introduction to Cisco ACI Fabric Troubleshooting

- ACI architecture review
- Key components and their roles
- Fabric operational overview

Module 2: Monitoring and Health Checks

- Using APIC for monitoring
- Fabric health scores and indicators
- Event and fault analysis

Module 3: Troubleshooting Endpoints and Connectivity

- Endpoint learning and resolution issues
- Troubleshooting VLANs, EPGs, and contracts

- Troubleshooting communication failures

Module 4: Fabric Policy and Configuration Issues

- Policy deployment issues
- Common misconfigurations
- Using tools to verify policy compliance

Module 5: Advanced Troubleshooting Techniques

- Using CLI and GUI for problem diagnosis
- Debugging and logging methods
- Case studies and practical labs

Module 6: Best Practices and Preventive Maintenance

- Maintaining fabric stability
- Proactive monitoring strategies
- Performance optimization techniques