



CISCO TRAINING

Troubleshooting Cisco Application Centric Infrastructure

Master advanced troubleshooting for Cisco ACI environments. Learn to diagnose and resolve complex issues in your data center infrastructure.

DURATION

2 hours

LEVEL

Advanced

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This advanced 2-hour course, "Troubleshooting Cisco Application Centric Infrastructure," is meticulously designed for network professionals seeking to master the complexities of diagnosing and resolving issues within Cisco ACI environments. In today's dynamic data centers, ACI provides unparalleled agility and automation, but ensuring its continuous, flawless operation demands a specialized skill set. This course delves deep into the core technologies of Cisco ACI, including the APIC controller, leaf and spine fabric, EPGs, contracts, bridge domains, and various external connectivity options, equipping participants with the expert knowledge needed to maintain robust, high-performing networks.

Participants will gain practical, hands-on understanding of advanced troubleshooting methodologies and tools specific to Cisco ACI. We will cover techniques for identifying root causes across the ACI fabric, tenant configurations, policy enforcement, and integrations with virtual machine managers. By the end of this intensive program, you will be proficient in using APIC GUI insights, CLI commands, fault analysis, and packet capture tools to rapidly diagnose and rectify even the most challenging ACI operational issues. This expertise is crucial for minimizing downtime, optimizing network performance, and ensuring the reliability of mission-critical applications.

The professional benefits of this course are substantial. Mastering ACI troubleshooting positions you as a critical asset in any organization leveraging Cisco ACI, enhancing your ability to contribute to operational excellence and strategic network initiatives. It opens doors to more senior roles, improves your problem-solving capabilities, and ensures you can confidently manage and maintain one of the industry's leading software-defined networking solutions.

Duration	2 hours
Level	Advanced
Vendor	Cisco

COURSE CURRICULUM

01 Module 1: ACI Troubleshooting Framework & Tools

- Review of ACI Architecture for Troubleshooting Context
- Understanding ACI Faults, Events, and Audit Logs
- Navigating the APIC GUI for Health Scores and Diagnostics
- Essential ACI CLI Commands for Fabric and Tenant Inspection
- Introduction to APIC APIs and `curl` for Data Retrieval

02 Module 2: Troubleshooting ACI Fabric & Underlay Issues

- Diagnosing Leaf-Spine Connectivity and Fabric Discovery Problems
- Verifying TE Pool Allocation and IP Reachability
- Troubleshooting ISIS and BGP Routing within the ACI Underlay
- Analyzing Hardware and Interface-Level Faults on Nexus Switches
- Monitoring Fabric Path and Unicast/Multicast Forwarding

03 Module 3: Troubleshooting ACI Tenant & Policy Enforcement

- Diagnosing EPG and Bridge Domain Configuration Errors
- Resolving Contract Enforcement and Communication Failures
- Troubleshooting VRF and Subnet Issues within Tenants
- Analyzing Application Profile and Endpoint Learning Problems

- Debugging Policy Deployments and Deviations

04 Module 4: Troubleshooting External Connectivity & Integrations

- Diagnosing L3Out (External Routed Network) Configuration and Connectivity
- Resolving L2Out (External Bridged Network) Issues
- Troubleshooting VMM (VMware vCenter, Microsoft Hyper-V) Integration Failures
- Verifying Service Graph Deployments and Load Balancer/Firewall Integration
- Analyzing Traffic Flow with SPAN and ELAM for External Connectivity

05 Module 5: Advanced Diagnostics & Best Practices

- APIC Cluster Health Monitoring and High Availability Troubleshooting
- Collecting and Analyzing Log Bundles and Tech Support Files
- Utilizing Packet Capture and ELAM (Embedded Logic Analyzer Module) for Deep Analysis
- Common ACI Troubleshooting Pitfalls and How to Avoid Them
- Proactive Monitoring and Maintenance Best Practices for ACI

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Senior Data Center Network Engineer (ACI Operations Specialist)**
- > **ACI Solutions Architect (Post-Deployment Support & Optimization)**
- > **Network Operations Center (NOC) Lead for SDN Environments**

FREQUENTLY ASKED QUESTIONS

Q: What specific diagnostic tools and methodologies will I master in this advanced ACI troubleshooting course to resolve complex network issues effectively?

This course will provide you with a comprehensive toolkit for ACI diagnostics. You will gain proficiency in using the APIC GUI's health scores, fault/event logs, and operational tabs. Furthermore, you will master essential CLI commands for inspecting fabric, tenant, and policy states, along with understanding how to leverage `moquery` and `icurl` for advanced data retrieval. The course also covers techniques for analyzing fabric forwarding, utilizing SPAN, and interpreting ELAM captures for deep packet and flow analysis, ensuring you can pinpoint and resolve issues rapidly.

Q: Is prior hands-on experience with Cisco ACI deployment or administration a prerequisite for enrolling in this advanced troubleshooting course?

Yes, this is an advanced-level course. While we will briefly review key ACI concepts, a foundational understanding of Cisco ACI architecture, basic policy configuration (e.g., creating tenants, EPGs, contracts), and some operational experience is highly recommended. Participants should be comfortable navigating the APIC GUI and have a grasp of SDN principles. This course is designed to build upon existing ACI knowledge, focusing specifically on diagnostic and problem-solving techniques.

Q: How will mastering ACI troubleshooting skills through this course directly enhance my career trajectory as a Data Center Network Engineer or Architect?

Mastering ACI troubleshooting is a critical differentiator for network professionals. This course will elevate your ability to ensure network stability, minimize downtime, and optimize performance in ACI-powered data centers. This specialized

expertise makes you an indispensable asset, often leading to roles focused on advanced operations, incident management, and even pre-sales/post-sales support for ACI solutions. It demonstrates a deep technical capability, opening pathways to senior-level positions, ACI specialist roles, or even architectural roles where understanding operational resilience is key.

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.

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