

ACI Operations & Troubleshooting Boot Camp (ACI OT BC)

Course Summary

Description

ACI Operations and Troubleshooting is a three-day, instructor-led course designed for data center architects and network engineers to learn how to operate and troubleshoot a Data Center Network Infrastructure running Cisco ACI.

Objectives

At the end of this course, students will be able to:

- Operationalize and troubleshoot the ACI Fabric
- Understand APIC and its monitoring, management and troubleshooting aspects
- Avoid common mistakes and recognize common symptoms

Topics

- ACI Overview and Configuration Review
- Configuration Management
- APIC Management Access Protocols and Interfaces
- Monitoring
- Troubleshooting

Audience

This course is designed for:

- SE's
- Customers Engineers
- Field Engineers
- DC Architects
- Network Infrastructure Personnel
- Cloud Infrastructure Personnel
- Network Operation Personnel

Prerequisites

To fully benefit from this course, students should have the following prerequisite skills and knowledge:

- Familiarity with Data Center infrastructure operations
- Familiarity with management of Cisco DC switches
- Understanding of basic network troubleshooting experience
- Basic System/Network Administration skills (Linux/Windows)
- Experience with DC Operations
- Recommended: Completion of ACI-FE Bootcamp, ACI-FE Essentials, or equivalent experience

Duration

Three days

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Course Outline

- I. **ACI Overview and Configuration Review**
- II. **Configuration Management**
 - A. Installing, upgrading, backing up, and restoring ACI fabric
 - B. Create admin-level user account
 - C. Configuration Restore
- III. **APIC Management Access Protocols and Interfaces**
 - A. Protocols and interfaces for ACI access
 - B. Basic GUI, Visore, CLI show commands
- IV. **Monitoring**
 - A. Always-on and on-demand monitoring tools
 - B. Audit Log
 - C. Configuring Syslog
 - D. Configuring SNMP
 - E. Custom Monitoring Policy
 - F. Traffic Map
- V. **Troubleshooting**
 - A. Methodologies, tools and specific examples
 - B. Taboo Contract, iPing, End Point Tracker, Contract Drops, Contracts, Traceroute, Atomic
 - C. Counters, SPAN
 - D. Challenge Lab