Cisco Operations and Troubleshooting Bootcamp for ACI

Cisco Training Bootcamps for individuals and small teams

Real-world training for today's IT professional

Cisco Training Bootcamps are 9-day intensive training programs, delivered over 8 weeks for individuals and groups of up to 12 learners, that will help you optimize your network.

This course is based on experience with a wide range of production deployments. So you'll gain real-world knowledge and skills to deploy and manage an ACI fabric and boost operational efficiencies in your own deployment.

How you'll benefit

This course will help you:

- Gain the skills and hands-on practice required for quicker application deployment
- Quickly ramp up Cisco ACI® operational knowledge and skills and instill best practices honed through real-world production deployments
- Gain hands-on troubleshooting techniques
- Optimize the benefits of using Cisco ACI, such as streamlined operations
- Develop confidence in configuring, managing, monitoring, and troubleshooting Cisco ACI environments
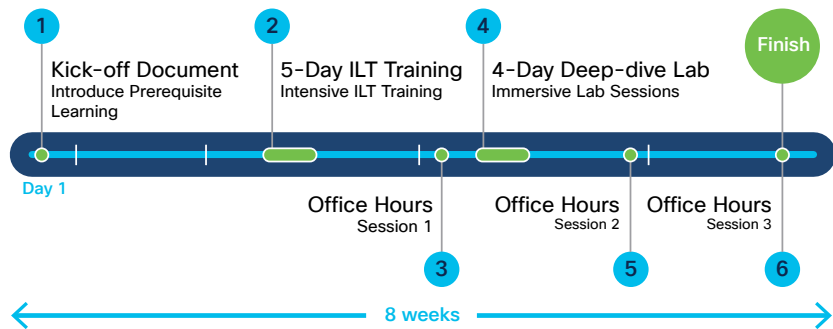
Prerequisites

Before taking this course, you should have the following knowledge and skills:

- Understanding of networking protocols, routing, and switching

- Familiarity with Cisco Ethernet switching products

- Understanding of Cisco data center architecture

- Familiarity with virtualization fundamentals

- Understanding of basic network troubleshooting and basic programming

Bootcamp components

- Kick-off document
  Self-study prerequisite materials provided to help you get a head start and prepare for the training

- 5-day instructor-led training
  In-depth Cisco training, including hands-on labs that focus on the foundational concepts you need to know

- Self-study materials
  To help reinforce the knowledge from the 5-day training and help you prepare for the deep-dive lab

- 4-day instructor-led, deep-dive lab
  Dynamic, hands-on training using end-to-end, deep-dive labs to build your confidence and skills

- Office hours support
  Three 2-hour support sessions conducted using a Webex space

1	Kick-off Document	Introduce Prerequisite Learning
2	5-Day ILT Training	Intensive ILT Training
4	4-Day Deep-dive Lab	Immersive Lab Sessions

Day 1

Office Hours Session 1
Office Hours Session 2
Office Hours Session 3

Finish

3   5   6

8 weeks

Technology area

- Data center

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Continuing Education credits

You can earn Cisco [Continuing Education Credits](#) with any Cisco Training Bootcamp and use your credits toward recertification. The Cisco Operations and Troubleshooting Bootcamp for ACI is worth 50 Continuing Education credits.

Cancellation Policy

Cancellation of enrollment within 30 days of the course start date will result in a charge of 100% of the listed class price.

5-day ILT: Outline

The Cisco Operations and Troubleshooting Bootcamp for ACI 5-day training course shows you how to deploy and manage the Cisco® Nexus® 9000 Series Switches in Cisco Application Centric Infrastructure (Cisco ACI®) mode. In the course, you will learn about best practices and caveats. You'll also get to practice troubleshooting common issues on a live fabric.

- Section 1: Introducing Cisco ACI Fabric Infrastructure and Basic Concepts
  - Lab: Validate Fabric Discovery
  - Lab: Configure Network Time Protocol (NTP)
  - Lab: Create Access Policies and Virtual Port Channel (vPC)

- Section 2: Describing Cisco ACI Policy Model Logical Constructs
  - Lab: Enable Layer 2 Connectivity in the Same Endpoint Group (EPG)
  - Lab: Enable Inter-EPG Layer 2 Connectivity

- Section 3: Describing Cisco ACI Basic Packet Forwarding
  - Lab: Enable Inter-EPG Layer 3 Connectivity
  - Lab: Compare Traffic Forwarding Methods in a Bridge Domain

- Section 4: Introducing External Network Connectivity
  - Lab: Configure External Layer 2 (L2Out) Connection
  - Lab: Configure External Layer 3 (L3Out) Connection

- Section 5: Describing Cisco ACI Day-0 to Day-2 Operations

- Section 6: Describing Cisco ACI Configuration Management
  - Lab: Configure SNMP and Perform Export/Import Operations

- Section 7: Describing Cisco ACI Monitoring
  - Lab: Monitor Cisco ACI and Configure Syslog
  - Lab: Explore the Management Information Tree
  - Lab: Configure SPAN

- Section 8: Cisco ACI Best Practices

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Order Bootcamps

To order Cisco Training Bootcamps, contact your BDM at learning-bdm@cisco.com.

4-day deep-dive lab: Outline

In the deep-dive lab session, you will configure a fully functional ACI environment from start to finish and engage in practical management and monitoring as well as troubleshooting exercises derived from actual cases from the Cisco Technical Assistance Center (TAC).

Day 1

- Section 1: Building the Cisco ACI Fabric
  - Lab: Perform Initial Configuration and Fabric Discovery
- Section 2: Performing Maintenance and Operations Activities
  - Lab: Create System Backup

Day 2

- Section 3: Configuring Logical Constructs
  - Lab: Create Access Policies and vPC
  - Lab: Configure a Tenant and Related Policies
- Section 4: Integrating External Resources
  - Lab: Configure L3Out
  - Lab: Integrate VMware

Day 3

- Section 5: Configuring Shared Services and Service Graphs
  - Lab: Configure Shared Services
  - Lab: Integrate Cisco ACI with Cisco ASA
- Section 6: Introducing Cisco ACI Multi-Site
  - Lab: Implement Cisco ACI Multi-Site

Day 4

- Section 7: Troubleshooting Common ACI Issues
  - Lab: Replace a Failed Switch
  - Lab: Troubleshoot Link Failures
- Section 8: Troubleshooting Case Studies
  - Lab: Troubleshooting Case Study 1
  - Lab: Troubleshooting Case Study 2
  - Lab: Troubleshooting Case Study 3