

**CACND****Cisco ACI in the Cisco Nexus Data Center**

40 horas

Data Center &amp; Cloud

Cisco

**INTRODUÇÃO**

The Configuring Cisco ACI in the Cisco Nexus Data Center (CACND) v4.0 course shows you how to deploy, operate, and maintain the Cisco® Application Centric Infrastructure (Cisco ACI® ) in a data center using the Cisco Nexus® 9000 Series Switches. You will gain hands-on experience configuring and operating the Cisco ACI environment, configuring virtual port channels, connecting physical endpoints, practicing troubleshooting, and more.

This course will help you:

- Build your skills the using the Application Policy Infrastructure Controller (APIC) to manage the policy on Cisco Nexus 9000 Series Switches in the ACI fabric;
- Gain hands-on practice using Cisco ACI.

Training from Cisco Advanced Services.

**OBJETIVO DO CURSO**

After taking this course, you should be able to:

- Describe the philosophy behind the Cisco ACI Model;
- Describe and configure the Cisco Nexus 9000 series of switches;
- Configure basic tasks using the Cisco APIC;
- Configure advanced tasks using the Cisco APIC;
- Configure Cisco ACI to work with VMware.

**PÚBLICO-ALVO**

IT professionals who operate and support a Cisco ACI Data Center Solution.

**PRÉ-REQUISITOS**

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

- Complete knowledge of traditional networking;
- Data center and virtualization.

## Course Introduction

Course Outline

Course Objectives & Goals

## Introduction to Cisco ACI

Examining Cisco ACI Components

Examining Cisco ACI Operations

## Cisco ACI Component Architecture

Examining the Operation of the Cisco ACI Fabric

Exploring the Cisco Nexus 9000 Series Switches

Examining the Cisco APIC

Managing Cisco ACI

## Cisco ACI Configuration and Operation

Configuring the Cisco APIC from the GUI

Configuring the Cisco APIC from the Command Line Interface (CLI)

Configuring the Cisco APIC from the API

Configuring Fabric Access

Configuring Virtual Port Channels

Configuring ACI Connectivity to External Networks

Troubleshooting Cisco ACI

## Cisco ACI Hypervisor Integration

Configuring ACI Integration with VMware

## Cisco ACI Advanced Features Configuration

Configuring Microsegmentation and Intra-EPG Isolation

Examining Transit Routing

Configuring Policy-Based Redirect

Configuring IP Multicast

Examining ACI Multifabric Options

## Lab outline

Lab 1: Exploring the Cisco ACI Fabric

Lab 2: Exploring the Cisco APIC

Lab 3: Operational Element Configuration from the GUI

Lab 4: Operational Element Configuration from the CLI

Lab 5: Operational Element Configuration from the API

Lab 6: Endpoint Physical Connectivity

Lab 7: Configuring Virtual Port Channels

Lab 8: Cisco ACI External Connectivity

Lab 9: Cisco ACI Troubleshooting

Lab 10: VM Integration with Cisco ACI

Lab 11: Configuring a Multisite Tenant