



CISCO TRAINING

Implementing Cisco Advanced Call Control and Mobility Services

Master implementing Cisco Advanced Call Control and Mobility Services. Learn to deploy and manage advanced unified communications features.

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 Cisco course, 'Implementing Cisco Advanced Call Control and Mobility Services,' is meticulously designed for experienced IT professionals seeking to master the intricacies of sophisticated Cisco Unified Communications environments. In this focused 2-hour session, participants will dive deep into crucial aspects of call control mechanisms, advanced dial plan implementations, and enterprise-grade mobility features. The curriculum covers core technologies such as Cisco Unified Communications Manager (CUCM), Cisco Unified Border Element (CUBE), and essential protocols like SIP, equipping you with the expertise to handle complex voice and video deployments. This intensive module emphasizes practical skills required to design, implement, and troubleshoot advanced call flows and mobility solutions, including SIP trunking, multisite deployments, and robust user mobility features. You will gain a profound understanding of how to optimize and secure your organization's communication infrastructure, ensuring high availability and seamless user experience. The course is structured to provide critical insights into managing dynamic call routing, deploying advanced gateway functionalities, and integrating modern mobility services effectively. By completing this course, you will significantly enhance your ability to tackle challenging collaboration scenarios, from optimizing global dial plans to ensuring business continuity through advanced redundancy features. The skills acquired are directly applicable to real-world enterprise deployments, empowering you to contribute to building more resilient, scalable, and feature-rich Cisco collaboration solutions. This specialized training is a stepping stone for career progression into highly specialized roles within the Cisco collaboration ecosystem.

Duration	2 hours
Level	Advanced
Vendor	Cisco

COURSE CURRICULUM

01 Module 1: Advanced Call Control Fundamentals & SIP

- Review of Advanced SIP Trunking Configurations
- Inter-Cluster Lookup and Global Dial Plan Considerations
- Call Admission Control (CAC) in Complex Environments
- SIP URI Dialing and Directory URI Setup

02 Module 2: Cisco Unified Border Element (CUBE) Essentials

- CUBE as a Session Border Controller (SBC) Overview
- Basic CUBE Configuration for SIP Trunking
- Dial-peer Matching and Manipulation for Advanced Routing
- SIP Normalization and Interworking Principles

03 Module 3: Enterprise Mobility Services Implementation

- Configuring Cisco Extension Mobility
- Implementing Mobile Connect (Single Number Reach)
- Fundamentals of Cisco Jabber Integration and Deployment
- Remote Destination Profiles (RDP) and Access Lists

04 Module 4: Resiliency and Advanced Troubleshooting Insights

- Survivable Remote Site Telephony (SRST) Overview and Configuration
- CUCM Cluster Redundancy and Failover Mechanisms
- Introduction to Advanced Call Flow Debugging with RTMT

- Common Advanced Call Control and Mobility Failure Scenarios

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Senior Collaboration Solutions Architect**
- > **Advanced UC Network Engineer (Level 3 Support)**
- > **Voice/Collaboration Security Specialist**

FREQUENTLY ASKED QUESTIONS

Q: What specific prerequisites are recommended for participants to fully leverage the advanced topics covered in this specialized 2-hour course?

While there are no strict certification prerequisites, participants should possess a solid understanding of fundamental Cisco Unified Communications Manager (CUCM) administration, including basic call routing, gateway configurations, and endpoint registration. Familiarity with SIP protocols and general networking concepts is also highly beneficial to grasp the advanced concepts presented in this concentrated module.

Q: How will this course specifically enhance my ability to design and troubleshoot complex multi-site dial plans and enterprise mobility solutions?

This course is specifically designed to deepen your practical skills in complex dial plan manipulation, CUBE configuration for advanced SIP scenarios, and the deployment of enterprise mobility features like Extension Mobility and Single Number Reach. You will gain targeted insights into troubleshooting methodologies for intricate call flows and learn how to implement resilient solutions, enabling you to design and support more robust and flexible communication infrastructures.

Q: Given the course's advanced nature and short duration, what key takeaways can I expect regarding optimizing Cisco Collaboration resource utilization and security?

Despite its focused duration, this advanced module will provide critical insights into optimizing resource utilization through efficient Call Admission Control (CAC) and effective CUBE deployment strategies. You will learn best practices for securing voice traffic across SIP trunks via CUBE and gain a clearer understanding of how to implement mobility solutions without compromising network integrity, thereby enhancing the overall security posture and operational efficiency of your Cisco Collaboration deployment.

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+

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10,000+

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Take the next step in your technology career.

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