Current Technologies
Computer Learning Centers

+1 (219) 764-3800
6210 Central Ave, Portage IN
sales@ctclc.com
www.ctclc.com

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WHERE GREAT TRAINING HAPPENS EVERYDAY!

Implementing Cisco Advanced Call Control and Mobility Services (CLACCM)

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In this Implementing Cisco Advanced Call Control and Mobility Services advanced Cisco Unified Communications course focuses on call signaling, media handling, and resilient call routing across single-site, multisite, and global enterprise deployments. The curriculum begins with in-depth analysis of SIP, H.323, and media protocols, enabling participants to understand call setup, teardown, and troubleshooting at both the signaling and media layers. Core Unified Communications Manager features such as supplemental services, call coverage, extension mobility, and unified mobility are explored to support flexible user and endpoint experiences.

As the course progresses, learners implement advanced call routing and survivability designs, including globalized call routing, global dial plan replication, call admission control, URI-based dialing, and multisite CUCM architectures. Specialized topics such as Cisco Unified Communications Manager Express, advanced remote site survivability, and PSTN backup strategies are addressed to ensure continuity of service in distributed environments. The course concludes with comprehensive coverage of Cisco Unified Border Element deployment and troubleshooting, reinforcing secure interconnection with service providers and remote networks. Extensive hands-on labs allow participants to analyze protocols, configure advanced features, and troubleshoot complex voice scenarios, preparing them to design and support highly available, scalable Cisco collaboration infrastructures.

How you'll benefit

This class will help you:

- Gain the skills to deploy advanced call control and mobility services in Cisco Unified Communications Manager, CME and SRST, Cisco Unified Communications Manager Express and advanced SRST gateway technologies, and Cisco Unified Border Element.
- Earn 40 CE credits toward recertification.

Why Attend with Current Technologies CLC

- Our Instructors are in the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

Who Should Attend

The primary audience for this course is as follows:

- Collaboration Engineers
- Collaboration Administrators

Course Duration
5 days

Course Price
$4,295.00 or 43 CLCs

Methods of Delivery
- Instructor Led
- Virtual ILT
- On-Site

Prerequisites

The knowledge and skills you are expected to have before attending this course can be found in the following Cisco Learning Offerings:

- Understanding Cisco Collaboration Foundations (CLFNDU v1.0)
- Implementing and Operating Cisco Collaboration Core Technologies (CLCOR v1.2)

OUTLINE

Module 1: Signaling and Media Protocols

Module 2: Cisco Unified Communications Manager Supplemental Services

Module 3: Call Coverage in Cisco Unified Communications Manager

Module 4: Cisco Unified Communications Manager Extension Mobility

Module 5: Cisco Unified Communications Manager Unified Mobility

Module 6: Cisco Unified Communications Manager Express

Module 7: Globalized Call Routing

Module 8: Advanced Remote Site Survivability

Module 9: Call Admission Control in Cisco Unified Communications Manager

Module 10: URI Calling in Cisco Unified Communications Manager

Module 11: Multisite Cisco Unified Communications Manager Deployments

Module 12: Global Dial Plan Replication

Module 13: Cisco Unified Border Element

LAB OUTLINE

- Lab 1: Analyze SIP, H.323, and Media Protocols
- Lab 2: Troubleshoot SIP and Media Protocols
- Lab 3: Implement Cisco Unified Communications Manager Supplemental Services
- Lab 4: Implement Call Hunting and Call Queueing in Cisco Unified Communications Manager
- Lab 5: Configure Cisco Unified Communications Manager Extension Mobility
- Lab 6: Troubleshoot Cisco Unified Communications Manager Extension Mobility
- Lab 7: Configure Cisco Unified Mobility
- Lab 8: Troubleshoot Cisco Unified Mobility

- Lab 9: Implement Endpoints in Cisco Unified Communications Manager Express
- Lab 10: Implement Endpoint Addressing and Call Routing in Cisco Unified Communications Manager Express
- Lab 11: Implement Calling Privileges Cisco United Communications Manager Express
- Lab 12: Implement Globalized Call Routing
- Lab 13: Implement TEHO, PSTN Backup, and CoS in a Globalized Call-Routing Deployment
- Lab 14: Implement Advanced Survivable Remote Site Telephony
- Lab 15: Implement Call Admission Control (CAC)
- Lab 16: Implement a URI-Based Dial Plan for Multisite Deployments
- Lab 17: Troubleshoot Globalized Call Routing
- Lab 18: Troubleshoot Call Admission Control
- Lab 19: Implement Global Dial Plan Replication
- Lab 20: Implement Cisco Unified Border Element
- Lab 21: Troubleshoot Cisco Unified Border Element