



# CIPT1: Implementing Cisco Unified Communications Manager Part 1 v9.0

Course ID#: 1575-962-ZZ-W

Hours: 35

## Course Content

### Course Description:

This hands-on course prepares you for configuring a Cisco Unified Communications Manager (CUCM) solution in a multisite environment.

Focusing primarily on CUCM v8.x/9.x, you will learn basic administrative tasks, such as configuring users and associating them with phones, as well as more advanced topics, such as dial plan design and configuration, unified mobility, Media Gateway Control Protocol (MGCP), H.323 gateways, and media resources.

With the increasing importance of globalization in the business world, this course instructs you in how to build dial plans to place on-net and off-net phone calls in North American and European sites. Additionally, you'll learn how to globalize your dial plan using E.164 addressing and how to implement routing and calling privileges based on location.

### Target Student:

Network professionals who install, configure, and manage Cisco Unified Communications solutions

### Prerequisites:

CVOICE - Implementing Cisco Unified Communications Voice over IP and QoS v8.0

### Topics:

#### Module 1: Cisco Unified Communications Manager (CUCM)

- Architecture
- Deployment and Redundancy Options

#### Module 2: CUCM Administration

- Managing Services and Initial Configuration
- Managing User Accounts

#### Module 3: Single-Site On-Net Calling

- Endpoints in CUCM
- Implementing IP Phones

#### Module 4: Single-Site Off-Net Calling

- PSTN Gateways in CUCM
- CUCM Call Routing Components
- CUCM Digit Manipulation
- Calling Privileges and Restrictions
- Gateway Selection and PSTN Access Features
- Call Coverage



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## **Module 5: Implementing Media Resources, Features, and Applications**

- Configuring CUCM IP Phone Services
- Presence-Enabled Speed Dials and Lists

## **Module 6: Features and Applications for Multisite Deployments.**

- Cisco Unified Mobility

### **Labs**

- Lab 1: Topology and Deployment
- Lab 2: CUCM Initial Setup
- Lab 3: Users - End Users
- Lab 4: Enhanced - Users - Application Users
- Lab 5: Users - BAT
- Lab 6: Manual Phone Configuration
- Lab 7: Phone Auto Configuration
- Lab 8: Phone Configuration CIPC
- Lab 9: BAT - Phones
- Lab 10: Gateway Lab: MGCP Global Protocol Configuration
- Lab 11: Gateway Lab: MGCP PRI Incoming
- Lab 12: Dial Plan Lab: Outgoing to PSTN via PRI
- Lab 13: Variable-Length On-Net Dial Plan - Part 1
- Lab 14: Dial Plan Lab 5: Class of Service - Additional Applications
- Lab 15: Dial Plan Lab: Hunt Lists and Call Coverage
- Lab 16: MOH and Software Conferencing
- Lab 17: DSP Resources
- Lab 18: Users Features 4 - Users Options Web Pages and IP Phone Services
- Lab 19: Presence and BLF
- Lab 20: Unified Mobility