

Course Description: Implementing Cisco Unified Communications Manager, Part 1 (CIPT1) v8.0 prepares you for implementing a Cisco Unified Communications Manager solution at a single-site environment. This course focuses primarily on Cisco Unified Communications Manager Version 8.0, which is the call routing and signaling component for the Cisco Unified Communications solution.

You will perform post-installation tasks, configure Cisco Unified Communications Manager, implement Media Gateway Control Protocol (MGCP) and H.323 gateways, and build dial plans to place on-net and off-net phone calls. You will also implement media resources, Cisco IP Phone Services, Cisco Unified Communications Manager native presence, and Cisco Unified Mobility.

Who Should Attend: The primary audiences for this course are network administrators, network engineers, and CCNP Voice candidates. The secondary audience for this course are systems engineers.

Prerequisites: The knowledge and skills that a learner must have before attending this course include working knowledge of fundamental terms and concepts of computer networking, including LANs, WANs, and IP switching and routing. Students must also have the ability to configure and operate Cisco routers and switches and to enable VLANs and DHCP, know the basics of digital interfaces, PSTN, and VoIP, have fundamental knowledge of converged voice and data networks, and the have the ability to configure Cisco IOS gateways with traditional and VoIP call legs.

Benefits of Attendance: Upon completion of this course, students will be able to:

- Describe Cisco Unified Communications Manager, including its functions, architecture, deployment and redundancy options, and how to install or upgrade
- Perform Cisco Unified Communications Manager initial configuration and user management
- Configure Cisco Unified Communications Manager to support on-cluster calling
- Implement PSTN access in Cisco Unified Communications Manager and to build a dial plan in a single-site Cisco Unified Communications Manager deployment
- Implement Cisco Unified Communications Manager media resources
- Implement Cisco Unified Communications Manager features and applications

Course Outline:

Module 1: Introduction to Cisco Unified Communications Manager

Understanding Cisco Unified Communications Manager Architecture
Understanding Cisco Unified Communications Manager Deployment and Redundancy Options

Module 2: Administering Cisco Unified Communications Manager

Managing Services and Initial Configuration of Cisco Unified Communications Manager
Managing User Accounts in Cisco Unified Communications Manager
Lab 2-1: Configuring Cisco Unified Communications Manager Initial Settings
Lab 2-2: Managing User Accounts in Cisco Unified Communications Manager

Module 3: Single-Site On-Net Calling

Understanding Endpoints in Cisco Unified Communications Manager
Implementing IP Phones
Lab 3-1: Implementing IP Phones

Module 4: Single-Site Off-Net Calling

Implementing PSTN Gateways in Cisco Unified Communications Manager
Configuring Cisco Unified Communications Manager Call-Routing Components
Using Partitions and CSSs to Implement Calling Privileges for On-Net Calls
Implementing Cisco Unified Communications Manager Digit Manipulation
Implementing Gateway Selection and PSTN Access Features
Implementing Call Coverage in Cisco Unified Communications Manager
Lab 4-1: Implementing PSTN Gateways
Lab 4-2: Configuring Cisco Unified Communications Manager Call-Routing Components
Lab 4-3: Implementing Digit Manipulation
Lab 4-4: Implementing Calling Privileges in Cisco Unified Communications Manager
Lab 4-5: Implementing Call Coverage in Cisco Unified Communications Manager

Module 5: Media Resources

Implementing Media Resources in Cisco Unified Communications Manager
Lab 5-1: Implementing Media Resources

Module 6: Feature and Application Implementation

Configuring Cisco IP Phone Services
Configuring Cisco Unified Communications Manager Native Presence
Configuring Cisco Unified Mobility
Lab 6-1: Configuring Cisco Unified Communications Manager Native Presence
Lab 6-2: Configuring Cisco Unified Mobility