

Course Overview

Cisco Unified Communications Architecture & Design

Overview

Unified Communications Architecture and Design (UCAD) v8.0 provides an overview of all the components of a Cisco Unified Communications solution and demonstrates how to effectively engineer and design a Cisco Unified Communications call control solution.

Target Audience

- Network architects who design converged networks
- System engineers who design customer and organization solutions
- Network engineers who wish to understand the high-level design process

Certifications

This course is part of the following Certifications:

- CCIE Voice (CCIEV Voice)
- Cisco IP Telephony Design Specialist

Delegates will learn how to

Upon completing this course, the delegate will be able to meet these overall objectives:

- Identify the components that comprise a complete Cisco Unified Communications solution and size and position products within the solution
- Identify the products and features required in the LAN environment to support Cisco Unified Communications call control
- Based on existing telephony and data statistics, perform these tasks:
- Calculate the WAN bandwidth requirements to support VoIP calls
- Size the voice gateway
- Size and locate the media resources
- Identify the issues and components that make up a Cisco Unified Communications call control solution
- Size and locate Cisco Unified Communications call agents and Cisco Unified Communications Manager 8.x
- Design a correct dial plan
- Explain issues that impact E911 requirements
- Secure the voice network components

Course Outline

Prerequisites

The delegate should have a working knowledge equivalent of the following Cisco courses:

- Interconnecting Cisco Network Devices Part 1 Version 1.1 (ICND1)
- Interconnecting Cisco Network Devices Part 2 Version 1.1 (ICND2)
- Designing for Cisco Internetwork Solutions Version 2.1 (DESGN)
- Implementing Cisco Unified Communications Voice over IP and QoS (CVOICE 8)
- Implementing Cisco Unified Communications Manager, Part 1 (CIPT1 8)
- Implementing Cisco Unified Communications Manager, Part 2 (CIPT2 8)

Special Notices

This course is run as an instructor led course, with the option to join via Extended Classrooms. To find dates click on the view dates/book course tab.

Using the latest technologies it allows virtual delegates to join an instructor led classroom, and interact with both the other delegates and instructors as if they were there.