

**COURSE** Cisco Unified Communications Architecture and Design (UCAD) v1.0

**CODE** TRN\_UCAD

**DURATION** 5 days

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## COURSE

The Cisco Unified Communications Architecture and Design course addresses the breadth of technical issues surrounding the design of Voice over Data networks and explains a methodology that brings order to approaching the problems faced by planners and designers. It teaches the assessment of the current network, Cisco methodology for implementing Voice over Data networks, and how to design sustainable and appropriate implementations. The 5-day course culminates in an intensive lab exercise to apply the concepts, recommendations and calculations to design an Enterprise Unified Communications solution with emphasis on LAN and WAN based call control systems that can be implemented and maintained cost-effectively. Given an existing data network, design a voice network solution overlay based on the use of Cisco's Unified Communications products according to the SRND and Cisco best practices. This course will cover design practices for each of the following models:

- Single Site
- Multi-site Centralized
- Multi-site Distributed
- Cluster Over an IP WAN

## WHO SHOULD ATTEND

- Channel Partner/Reseller
- Customers
- Employees

## COURSE OBJECTIVES

- Module 1: Unified Communications Architecture Overview  
Given an example of Unified Communications Manager

solution, identify the features of Cisco Unified Communications Release 6.0.

- Module 2: Designing the LAN for Unified Communication Call Control.
- Module 3: Designing the WAN for Unified Communication Call Control.
- Module 4: Designing Unified Communication Call Control  
Select IP telephony gateways that are appropriately sized for customer load conditions and appropriately scalable for their growth projections.

## **COURSE OUTLINE**

This subtopic provides an overview of how the course is organized. The course contains these components.

- Course Introduction.
- Overview of Cisco Unified Communications solution components.
- Designing the LAN for a Cisco Unified Communications solution.
- Designing the WAN for a Cisco Unified Communications solution.
- Designing the Call Control component of a Cisco Unified Communications solution.

## **PREREQUISITES**

- CCDA Certification.
- Recommended: CCNA Certification, CVOICE, QoS courses.