

## Implementing Cisco TelePresence Video Solutions (Parts 1 and 2)

**Duration: 5 Days**    **Course Code: VTVS**

### Overview:

This course covers all the base terminology and technology associated with video conferencing and an introduction to Cisco's TelePresence video solution for H.323, SIP and TIP video communication. Products included in this training are C-series endpoints, VCS, CUCM Call Manager, MCUs and TelePresence Management Suite (TMS). Participants will gain in-depth practical knowledge with exercises on installing, configuring, maintaining and basic troubleshooting of the equipment. Advanced topics in this course include complex video network environments with firewall traversal, clustering, zoning and subzoning. In addition, students will use functions of the VCS to control access and bandwidth and use transforms, call policy and FindMe™. Students will use TMS and VCS to provision SIP video and Jabber Video users, and will use CUCM Call Manager to provision SIP audio and video.

The content for part 1 of this course is provided in ELT format the duration is 12hrs. Students will need to have completed this content prior to class attendance as the VTVS1 content is only briefly reviewed on day one.

### Target Audience:

This course is designed for: Field engineers and helpdesk personnel who support Cisco Telepresence Solutions and applications as well as end-user technical staff such as video systems engineers and administrators.?

### Objectives:

- Upon completing this course, the learner will be able to meet these overall objectives:
- Define Cisco Business TelePresence Solutions components and architectures
- Describe SIP and H.323 basic configuration
- Implement advanced features of Cisco VCS
- Implement Cisco TelePresence MCU, Cisco TelePresence Server, and the MSE 8000 Server as they interoperate with both the Cisco VCS and the Cisco Unified CM
- Utilize Cisco Conductor for multiple multipoint control units or TelePresence Server management
- Implement Cisco TelePresence Management Suite
- Provision devices using TMS Provisioning Extension
- Demonstrate how Cisco TelePresence Content Server interacts with other products within the Cisco Business TelePresence Solution (Optional)

### Prerequisites:

The knowledge and skills that a learner must have before attending this course are as follows:

- Working knowledge of basic IP networking
  - Knowledge of video conferencing and streaming fundamentals
- To gain the prerequisite skills and knowledge, Cisco strongly recommends the knowledge of the following courses:
- CCNABC or ICND1 and ICND2
  - CCNA Video -VIVND1 (ELT) and VIVND2 or VIVND

### Testing and Certification

Recommended as preparation for:

- 500-006 - TelePresence Video Field Engineer for Advanced Exam

## Content:

### Review of E-learning Content

- Installing, Configuring, and Operating the Cisco® TelePresence C Series Codecs
- Installing, Configuring, and Troubleshooting the Cisco TelePresence Video Communication Server (VCS)
- Installing, Configuring, and Troubleshooting the Cisco 5300 Multipoint Control Unit (MCU)
- Installing, Configuring, Operating, and Troubleshooting Cisco TelePresence Management Suite (TMS)
- Installing, Configuring, Operating, and Troubleshooting Cisco TelePresence Content Server

### Cisco TelePresence Endpoints Overview

- Understanding Cisco TelePresence Endpoints

### SIP and H.323 Basic Configuration

- Understanding the Cisco Video Network
- Understanding SIP, H.323, and the Cisco VCS
- Backing Up, Restoring, and Upgrading the Cisco VCS
- Configuring SIP with Cisco Unified CM
- Exploring the Cisco Unified CM and Cisco VCS Dial Plans

### Advanced Cisco VCS Features

- Demonstrating Cisco VCS Security Policies and Authentication
- Describing the Fundamentals of Subzones
- Describing Transforms and Admin Policy
- Implementing the FindMe Application on the Cisco VCS
- Describing the Purpose of Zones on the Cisco VCS
- Configuring Neighbor Relationships
- Configuring Traversal Zones
- Describing and Formatting DNS and ENUM Zones
- Configuring Subzone Bandwidth Management
- Describing Call Processing
- Describing Regular Expressions
- Describing and Installing Security Certificates
- Describing Cisco Unified Presence on the Cisco VCS
- Describing the Conference Factory
- Using Redundancy
- Troubleshooting the Cisco VCS

### Video Conference Bridges

- Understanding the Cisco TelePresence MCU
- Setting Up the Cisco TelePresence MCU
- Configuring the Cisco TelePresence MCU
- Operating the Cisco TelePresence MCU
- Customizing the Cisco TelePresence MCU
- Understanding Global Conference Settings
- Upgrading the Cisco TelePresence MCU
- Understanding the Cisco TelePresence MSE 8000
- Understanding the Cisco TelePresence Server
- Understanding TIP
- Troubleshooting the Cisco TelePresence MCU

### Cisco TelePresence Conductor

- Understanding the Cisco TelePresence Conductor
- Configuring the Cisco MCU with VCS and Conductor
- Configuring the Cisco MCU with Unified CM and Conductor
- Configuring the TelePresence Server with the Conductor
- Configuring the Cisco VCS with TelePresence Conductor
- Configuring Cisco TelePresence Conductor Settings
- Configuring the Cisco Unified CM and Conductor

### Cisco TelePresence Management Suite

- Understanding the Cisco TMS
- Operating the Cisco TMS
- Creating Conferences in the Cisco TMS
- Understanding ISDN and IP Zones
- Managing Permissions in the Cisco TMS
- Troubleshooting the Cisco TMS

### Cisco TMSPE

- Understanding Cisco TMSPE
- Configuring Cisco TMSPE Components
- Deploying Cisco TMSPE for Provisioning
- Provisioning Phone Books and Sending Account Information
- Troubleshooting Provisioning Components

### Cisco TelePresence Content Server (Optional)

- Understanding the Cisco TCS
- Configuring the Cisco TCS

### Further Information:

For More information, or to book your course, please call us on +254 713 027 191

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