

## Cisco Video Infrastructure Implementation

**Course#:VII**  
**Duration:5 Days**  
**Price:0.00**

### Course Description

This course is designed to teach technicians to install/configure, operate and maintain core visual communication components for both premise and cloud-based video and TelePresence solutions. Cisco video/UC infrastructure including Expressway (or VCS), Unified Communications Manager (UCM), Cisco Meeting Server (CMS), TelePresence Server, Conductor and TMS will be configured to work in premise based solutions as well as with Cisco Spark and Cisco WebEx cloud solutions. Video Infrastructure Implementation (VII) v2017 replaces the Implementing Cisco TelePresence Video Solutions (VTVS2) course to help students prepare for the The Cisco Video Infrastructure Implementation (VII) exam (500-710).

### Objectives

This course will provide you with the necessary knowledge and skills to implement a complete CiscoTelePresence solution, including TelePresence endpoints, integration of premise with cloud solutions,meeting solutions, and management software. It describes Cisco business TelePresence solutions andenables students to implement and troubleshoot basic and advanced TelePresence network solutions.

Upon completion of this course, you will be able to:

- Define Cisco Business TelePresence Solutions components and architectures
- Implement Cisco TelePresence Video Communication Server (Expressway) for basic and advanced video networks
- Implement Cisco TelePresence Management Suite (TMS)
- Configure Cisco Meeting Server Features
- Define integration of Cisco Collaboration Premise Solutions with Cisco Cloud, including Cisco Spark,  
Cisco Spark Hybrid, and WebEx

## **Audience**

Field engineers and first-line support personnel who implement and support Cisco TelePresence products and applications

End-user technical staff such as video systems engineers and administrators

Also appropriate for sales engineers

## **Prerequisites**

It is recommended, but not required, to have the following skills and knowledge before attending this course:

Working knowledge of basic IP networking

Knowledge of video conferencing and streaming fundamentals

Highly desirable to have technical knowledge of Microsoft Enterprise products

Implementation and support knowledge of Microsoft Skype for Business is useful for integration with Cisco Meeting Server High Level Course Design

## **Content**

Classroom Live Outline

Module 1: Advanced Cisco Expressway Features

Lesson 1: Introducing Cisco Video Network Solutions

Lesson 2: Exploring Cisco Expressway Basic Setup

Lesson 3: Explaining Regular Expressions in a Cisco Expressway Environment

Lesson 4: Deploying Components of Cisco Expressway Security

Lesson 5: Exploring the Fundamentals of Subzones on a Cisco Expressway

Lesson 6: Administering Call Control on a Cisco Expressway

Lesson 7: Implementing Subzone Bandwidth Management on a Cisco Expressway

Lesson 8: Implementing Zones on a Cisco Expressway

Lesson 9: Exploring Clustering on the Cisco Expressway

Lesson 10: Applying Troubleshooting on the Cisco Expressway

## Module 2: Advanced Cisco Meeting Server Features

Lesson 1: Introducing the Cisco Meeting Server

Lesson 2: Exploring Cisco Meeting Server API Configuration

Lesson 3: Exploring Cisco Meeting Server Resilient and Scalable Deployments

Lesson 4: Exploring Additional Features with Cisco Meeting Server

## Module 3: Cisco Collaboration Meeting Room Solutions with Cisco TelePresence Server

Lesson 1: Introducing Cisco Collaboration Meeting Room Cloud, Premises, and Hybrid Products

Lesson 2: Deploying the Cisco TelePresence Server and Cisco TelePresence Conductor

Lesson 3: Applying Troubleshooting to Cisco CMR Premises Solutions

## Module 4: Cisco TelePresence Management Suite Solution

Lesson 1: Explaining Cisco TMS Installation

Lesson 2: Describing Cisco TMS Operation

Lesson 3: Explaining Cisco TMS Conference Scheduling and Management

Lesson 4: Configuring Permissions on Cisco TMS for Administration

Lesson 5: Applying Troubleshooting to Cisco TMS

## Module 5: Cisco Cloud Solutions WebEx and Spark

Lesson 1: Introducing Cisco WebEx and Cisco Spark Cloud Solutions

Lesson 2: Exploring Cisco Spark Administration Configuration

Lesson 3: Deploying Cisco Spark Hybrid Services

Lesson 4: Exploring Cisco Spark APIs and BOTs Configuration

## Module 6: Cisco TelePresence Content Server (Optional Module)

### Lesson 1: Examining Cisco TCS Operation and Configuration

#### Classroom Live Labs

Guided Lab 1: Explaining Regular Expressions in a Cisco Expressway Environment

Guided Lab 2: Deploying Components of Cisco Expressway Security

Guided Lab 3: Exploring the Fundamentals of Subzones on a Cisco Expressway

Guided Lab 4: Implementing Subzone Bandwidth Management on a Cisco Expressway

Guided Lab 5: Implementing Zones on a Cisco Expressway

Guided Lab 6: Applying Troubleshooting on the Cisco Expressway

Guided Lab 7: Exploring Cisco Meeting Server API Configuration

Guided Lab 8: Exploring Cisco Meeting Server Resilient and Scalable Deployments

Guided Lab 9: Deploying the Cisco TelePresence Server and Cisco TelePresence Conductor

Guided Lab 10: Applying Troubleshooting to Cisco CMR Premises Solutions

Guided Lab 11: Describing Cisco TMS Operation

Guided Lab 12: Explaining Cisco TMS Conference Scheduling and Management

Guided Lab 13: Configuring Permissions on Cisco TMS for Administration

