Cisco Video Infrastructure Implementation (VII)

Course Overview

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).

What You'll Learn

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

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**

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 Meetin gRoom Solutions wiht 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

Labs

Classroom Live Labs

Lab 1: Explaining Regular Expressions in a Cisco Expressway Environment

Lab 2: Deploying Components of Cisco Expressway Security

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

Lab 4: Implementing Subzone Bandwidth Management on a Cisco Expressway

Lab 5: Implementing Zones on a Cisco Expressway

Lab 6: Applying Troubleshooting on the Cisco Expressway

Lab 7: Exploring Cisco Meeting Server API Configuration

Lab 8: Exploring Cisco Meeting Server Resilient and Scalable Deployments

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

Lab 10: Applying Troubleshooting to Cisco CMR Premises Solutions

Lab 11: Describing Cisco TMS Operation

Lab 12: Explaining Cisco TMS Conference Scheduling and Management

Lab 13: Configuring Permissions on Cisco TMS for Administration