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Learning Style: Virtual Classroom

Technology: Cisco

Difficulty: Intermediate

Course Duration: 5 Days

Cisco Video Infrastructure Implementation (VII)

About this course:

Video Infrastructure Implementation (VII) v2017 replaces the Implementing Cisco TelePresence Video Solutions (VTVS2) course to help students prepare for the Cisco TelePresence Video Specialist Certification. This cisco TelePresence training 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. Systems engineers, collaboration tools engineers, communications engineers, along with network video operators and administrators are strong candidates for taking this Cisco Video Infrastructure Implementation course.

Course Objective:

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

- Install, configure, maintain, and troubleshoot Cisco visual collaboration solutions.
- This course assists the student in preparing for the Cisco TelePresence Video Specialist Certification.

Audience:

The primary audience for this course is as follows:

- Network Video Operator and Administrator
- Voice / UC / Collaboration / Communications Engineer
- Collaboration Tools Engineer
- Collaboration Sales / Systems Engineer

Prerequisite:

The knowledge and skills the learner should have before attending this course are as follows:

- Working knowledge of basic IP networking
- Knowledge of video conferencing and streaming fundamentals

Course Outline:

Module 1: Advanced Cisco Expressway Features

- Introducing Cisco video network solutions
- Exploring Cisco Expressway basic setup
- Explaining regular expressions in a Cisco Expressway environment
- Deploying components of Cisco Expressway Security
- Exploring the fundamentals of subzones
- Administering call control
- Implementing subzone bandwidth management
- Implementing zones
- Exploring clustering

- Applying troubleshooting

Module 2: Advanced Cisco Meeting Server Features

  - Introducing the Cisco meeting server
  - Exploring API configuration
  - Exploring resilient and scalable deployments
  - Additional features

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

  - Introducing Collaboration Meeting Room cloud, premises, and hybrid products
  - Deploying the TelePresence Server and TelePresence conductor
  - Applying troubleshooting to Cisco CMR Premises Solutions

Module 4: Cisco TelePresence Management Suite (TMS) Solution

  - Explaining Cisco TMS Installation
  - Describing TMS operation
  - Explaining TMS conference scheduling and management
  - Configuring permissions
  - Applying troubleshooting

Module 5: Cisco Cloud Solutions - WebEx and Spark

  - Introducing WebEx and Spark cloud solutions
  - Exploring Spark administration configuration
  - Deploying Spark hybrid services
  - Exploring Spark APIs and BOTs configuration

Module 6: Cisco TelePresence Content Server (Optional Module)

  - Examining Cisco TCS operation and configuration

Lab Outline

  - Lab 1: Configure Expressway for premise-based visual communications networks
  - Lab 2: Configure Cisco Meeting Server in a clustered deployment
  - Lab 3: Configure CMR using TelePresence Server, Conductor, TMS, and WebEx
  - Lab 4: Configure WebEx for enterprise use
  - Lab 5: Configure Spark for enterprise use
  - Lab 6: Configure Spark Hybrid