Cisco Video Infrastructure Implementation (VII)

COURSE OVERVIEW:

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 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.

WHO WILL BENEFIT FROM THIS COURSE?
- Network Video Operator and Administrator
- Voice / UC / Collaboration / Communications Engineer
- Collaboration Tools Engineer
- Collaboration Sales / Systems Engineer

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

COURSE OBJECTIVES:

At the end of this course students will be able to install, configure, maintain and troubleshoot Cisco visual collaboration solutions. This course assists the student in preparing for the Cisco TelePresence Video Specialist certification.

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

Labs:
- Configure Expressway for premise-based visual communications networks
- Configure Cisco Meeting Server in a clustered deployment
- Configure CMR Using TelePresence Server, Conductor, TMS and WebEx
- Configure WebEx for enterprise use
- Configure Spark for enterprise use
- Configure Spark Hybrid

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