

CCIPFM (IP FOUNDATION FOR BROADCAST ENGINEERS) 1.0

Objetivo

After taking this course, you should be able to: Describe Ethernet communication functions and standards Describe the Open Systems Interconnection (OSI) and TCP/IP models Describe IPv4 and IPv6 addressing Describe TCP and User Datagram Protocol (UDP) Explain packet delivery between end hosts Explain the port channel features on Cisco Nexus® switches Describe basic routing functionalities Understand IP multicast technologies Describe the overall IPFM solution Understand initial sizing and capacity Understand how Non-Blocking Multicast (NBM) and multicast function in IPFM Understand and verify Precision Time Protocol (PTP) clocking Describe the DCNM Media Controller Demonstrate the DCNM Media Controller configuration and verification Explain how to deploy the IPFM solution in a high-availability manner Use the DCNM Media Controller to monitor fabric and to troubleshoot basic connectivity and performance issues Understand the approach and basic steps involved in responding to alarms and other notifications

Público Alvo

This course is designed for broadcast engineers.

Pré-Requisitos

We recommend but do not require that you have the following knowledge and skills before taking this class: Understanding of broadcast industry requirements and standardization Use of basic Linux commands

Carga Horária

40 horas (5 dias).

Conteúdo Programático

Describing Ethernet Functions and Standards

Describing the OSI and TCP/IP Models

Describing IP Routing

Introducing IP Multicast

Introducing Cisco IP Fabric for Media

Building Cisco IP Fabric for Media

Cisco IPFM Operations, Administration, and Management

Orchestrating Flows with DCNM Media Controller

Cisco IPFM Scalability and Availability

Monitoring and Troubleshooting Cisco IPFM Operation

Lab outline

- Configure VLANs and Trunks
- Configure Multilayer Switching and IP Addressing
- Configure OSPF
- Multicast on Cisco Nexus Switches
- Implement IPFM Without DCNM Media Controller
- Administer and Maintain the IPFM
- Orchestrate Flows with Cisco DCNM Media Controller
- Orchestrate Flows in Highly Available IPFM
- Monitor and Troubleshoot Cisco IPFM Operation