

# EPNM100 (CONFIGURING AND OPERATING CISCO EPN MANAGER) 4.0

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## Objetivo

After taking this course, you should be able to:

- Describe Cisco EPN Manager's features and navigate the Cisco EPN Manager's user interface
- Understand the network inventory, topologies, and circuits
- Manage dashboards, alarms, and events
- Create and interpret reports
- Distinguish the system requirements for Cisco EPN Manager, and procedures for new installations, upgrades, licensing, and high availability
- Manage device groups and virtual domains
- Establish user accounts and their role-based access to EPN Manager's features and devices
- Configure and combine devices
- Perform backups and restores
- Manage data retention, purging, and software updates
- Monitor system health and performance
- Update and manage software images
- Archive, review, and restore configuration files
- Configure Quality of Service (QoS) actions and policies
- Configure devices using templates
- Perform compliance audits
- Configure monitoring policies
- Provision Carrier Ethernet services
- Provision Multiprotocol Label Switching (MPLS) Traffic Engineering (TE) services
- Provision Circuit Emulation (CEM) services
- Provision an Optical Channel Network Connection (OCHNC) circuit
- Provision an Optical Channel Client Connection (OCHCC) circuit
- Provision an optical Media Channel Group with an OCHCC circuit
- Describe how Cisco EPN Manager can work with Cisco Network Services Orchestrator (NSO) to provide automated service provisioning

## Público Alvo

- Cisco integrators and partners
- Network operators
- Network administrators
- Optical network administrators
- System administrators
- System integrators and professional services

## Pré-Requisitos

To fully benefit from this course, you should have the following knowledge and skills:

- Network management experience including polling, syslogs, IP formation, ports, device access, credentials, Simple Network Management Protocol (SNMP), and Secure Shell (SSH)
- Basic understanding of network and device performance statistics
- Fundamental understanding of network alarms and events
- Experience with configuring network devices and provisioning services using a device's Command-Line Interface (CLI)
- Experience with configuring optical network devices and provisioning optical circuits using either TL1 (CLI) or the Cisco Transport Controller application

## Carga Horária

32 horas (4 dias).

## Conteúdo Programático

### Outline

- Exploring Cisco EPN Manager
  - o Cisco EPN Manager Overview
  - o Cisco EPN Manager Key Features
- Viewing Devices and Inventory
  - o Device Types
  - o View Devices
- Viewing Network Topologies and Circuits
  - o Topology Map Basics
  - o Change Information Displayed
- Using Dashboards
  - o Dashboards Overview
  - o Customize Dashboards
- Managing Alarms and Events
  - o Alarms and Events Overview
  - o View Alarms and Events
- Generating Reports
  - o Report Fundamentals
  - o Create and Schedule Reports
- Performing Basic Administration
  - o Installation Basics
  - o Perform Server Setup
- Adding Devices
  - o Device Management Fundamentals
  - o Add a Device Manually
  - o Add User-Defined Fields
- Backup and Restoring
  - o Backup Fundamentals
  - o Schedule a Backup
- Performing System Maintenance
  - o Software Updates
  - o Data Retention and Purging
- Software Image Management (SWIM)
  - o Software Image Management Fundamentals
  - o Setting Up Software Image Management
- Configuration Management
  - o Configuration Management Fundamentals
  - o Archive Setup
- Configuring QoS
  - o QoS Basics
  - o Create a Classification Profile
- Configuring Devices with Templates
  - o Device Configuration Methods
  - o Template Basics
- Performing Compliance Management

- o Compliance Audit Basics
- o Compliance Policy Basics
- Monitoring with Policies
  - o Monitoring Policy Fundamentals
  - o Edit a Monitoring Policy
- Circuit and Video Conferencing (VC) Fundamentals
  - o Circuit Provisioning Basics
  - o Supported Service Types
- Provisioning Carrier Ethernet Services
  - o Provision a Carrier Ethernet Service
  - o Verify a Service
- Provisioning Cisco MPLS Traffic Engineering Services
  - o Cisco MPLS TE Service Basics
  - o Provision a Cisco MPLS TE Service
- Provisioning Circuit Emulation Services
  - o Circuit Emulation Services Basics
  - o Provision a CEM Service
- Provisioning an OCHNC Circuit
  - o OCHNC Circuit Basics
  - o Set Up Devices for Circuit
- Provisioning an Optical OCHCC Circuit
  - o OCHCC Circuit Basics
  - o Set Up Devices for Circuit
- Provisioning a Media Channel Group with an OCHCC Circuit
  - o Media Channel Group with OCHCC Basics
  - o Provision a Media Channel Group
- Introducing Cisco EPN Manager with Cisco NSO
  - o Cisco EPN Manager with Cisco NSO Basics

#### Lab outline

- Access and Navigation
- View Devices and Device Details
- View Maps, Topologies, and Circuits
- View and Customize Dashboards
- Manage Alarms and Events
- Generate Reports
- Basic Administration
- Add Devices to the Inventory
- Backups
- Basic Maintenance
- Software Image Management
- Configuration Management
- Configure QoS
- Configure Devices with Templates
- Compliance Management
- Monitor with Policies
- Provision a Carrier Ethernet Service

- Provision and MPLS Traffic Engineering Service
- Provision a Circuit Emulation Service
- Set Up, Provision, and Monitor an OCHNC Circuit
- Set Up, Provision, and Monitor a Media Channel with OCHCC