Learning Services

Cisco Prime Optical Operation and Maintenance

The Cisco Prime™ Optical Operation and Maintenance (CPOOM) is a lab-intensive course that introduces you to the Cisco Prime Optical management application. It is instructor led and offered by High-Touch Delivery Learning Services.

Cisco Prime Optical is the network management system used to manage all Cisco® optical devices and high-end routers. The Cisco Prime Optical Operation and Maintenance course enables students to use the Prime Optical network management system to manage a variety of Cisco optical devices. Working in small groups of two to three people, students complete a wide range of tasks covering many functionalities of the Cisco Prime Optical software.

The program starts with the installation procedures of the client, followed by the management of the network elements and administration of Cisco Prime Optical Software and users. The focus is on element management, including configuration, performance monitoring, inventory, security, fault management, reporting, system administration, and troubleshooting.

Students gain an understanding of the primary components of Cisco Prime Optical and the underlying architecture; the Cisco Prime Optical user interface; the configuration of network elements, dense wavelength-division multiplexing (DWDM) circuits, network and circuit mapping, and VLAN management; fault and security management with detailed labs on network element alarms; user security; and general administration of Cisco Prime Optical.

**Duration**

2 days

**Target Audience**

This course is designed for technicians who set up and operate Cisco Prime Optical Software, including optical-element management, configuration, performance monitoring, inventory, security, fault management, and reporting.
Targeted roles include:
  - System engineers
  - Technical support personnel
  - Channel partners and resellers

Course Objectives
After completing this course, you should be able to:
  - Install and start the client software
  - Identify the major functionalities of Cisco Prime Infrastructure and Optical
  - Operate Cisco Prime Optical
  - Add new groups and network elements
  - Create DWDM and time-division multiplexing (TDM) circuits
  - Understand Cisco CPT Multiprotocol Label Switching Transport Profile (MPLS TP), tunnels and pseudowire connections
  - Perform user administration
  - Perform network elements security
  - Perform security management
  - Use performance monitoring
  - Use fault management
  - Perform alarm features
  - Perform general administration
  - Use reporting features

Course Prerequisites
  - A working knowledge of optical equipment, including SONET or SDH fundamentals, and DWDM fundamentals
  - Cisco ONS 15454 Multiservice Transport Platform (MSTP) from installation to protection FITP10
  - Advanced Services Cisco ONS 15454 MSTP Release 9.2 Advanced Topics and Data over DWDM

Course Outline
  - Module 1: Introduction to Network Management Using Cisco Prime Optical
  - Module 2: Cisco Prime Optical GUI
  - Module 3: Cisco Prime Optical Usage
  - Module 4: Fault and Security Management
  - Module 5: General Administration

Lab Outline
  - Lab 1: Lab Access
  - Lab 2: Cisco Prime Optical GUI Familiarization
Lab 3: Optical Provisioning
Lab 4: Security Management
Lab 5: Network Element Backup and Upgrade
Lab 6: SDH Circuit Provisioning

Registration Email
For more information about schedules and registration for this course, contact aeskt_registration@cisco.com.

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