

## Managing Enterprise Networks with Cisco Prime Infrastructure v3.1 ( NMENPI )

### Course Summary

#### Description

Cisco Prime Infrastructure is a unified solution that allows students to manage the network, devices, applications, and users from one place thus simplifying the management of both wired and wireless networks. This five day course is designed to establish a strong foundation in managing the full range of Cisco wired and wireless infrastructure using Prime Infrastructure v3.1.

During this course students will explore the Application Visibility and Control capabilities of Prime Infrastructure through monitoring and troubleshooting problems on the network. This course puts the student in the context of a realistic customer scenario and covers every aspect of Cisco Prime Infrastructure Lifecycle management approach. Students will create sites and maps, deploy configurations, perform device discover, as well as set alarms and troubleshoot network and application issues. Please note that NMENPI v3.1 features enhanced labs available exclusively to our students.

#### Objectives

At the end of this course, students will be able to:

- Describe the architecture, licensing, migration capabilities, assurance, compliance features, and setup of Cisco Prime Infrastructure v3.1
- Identify the pre-deployment and design tasks in the design lifecycle phase
- Describe how to deploy device configurations with Cisco Prime Infrastructure
- Examine the different available templates and their capabilities and how to create configurations and deploy them using these templates
- Describe roles of operations workforce and applicable features of Cisco Prime
- Perform device discover and configuration tasks
- Explore the monitoring and management capabilities of Cisco Prime Infrastructure
- Create monitoring templates and perform health and performance monitoring
- Use Prime Infrastructure to troubleshoot and perform problem isolation and create and customize a wide range of reports using Prime Infrastructure 3.1

#### Topics

- Cisco Prime Infrastructure 3.1 Overview
- Inventory Management
- Map the Network
- Configuration Management

#### Audience

This course is designed for IT engineers, administrators or managers that need to know the fundamentals about planning, installing, configuring, troubleshooting, and maintaining Cisco infrastructures using Cisco Prime Infrastructure 3.1. This includes systems engineers, field engineers, technical support professionals, network managers, security team members, and administrators.

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### **Course Summary (cont'd)**

#### **Prerequisites**

In order to fully benefit from this course, it is strongly recommended that students have the following prior to enrollment:

- Experience in wired and wireless network management
- Experience with wired and wireless network management terminology
- CCNA-Wireless and CCNA-Route/Switch level knowledge
- Previous training in and/or experience with CiscoWorks, Network Control System (NCS), or Wireless Control System (WCS)

#### **Duration**

Five days

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### Course Outline

- I. Cisco Prime Infrastructure 3.1 Overview**
  - A. Defining Network Management
  - B. Exploring the Network Management Process
  - C. Introducing Cisco Prime Infrastructure 3.1
  - D. Installing Cisco Prime Infrastructure 3.1
  - E. Getting Started with Cisco Prime Infrastructure
  - F. Configuring Initial Server Settings
  - G. Managing Virtual Domains and Users
  
- II. Inventory Management**
  - A. Discovering the Network
  - B. Managing the Network Inventory
  - C. Managing Groups
  - D. Managing Compute Devices
  - E. Managing Network Device Software Images
  
- III. Map the Network**
  - A. Managing Wireless Maps
  - B. Managing Network Topology Maps
  
- IV. Configuration Management**
  - A. Modifying Configuration Archive Settings
  - B. Managing the Configuration Archive
  - C. Managing Templates for Wired Devices
  - D. Managing Templates for Wireless Devices
  
- V. Labs**
  - A. Access and Perform Maintenance on Cisco Prime Infrastructure's CLI
  - B. Managing Users and Virtual Domains
  - C. Configuration and Software Image Management
  - D. Using the Map Editor
  - E. Using the Planning Tool
  - F. Deploying Wired Device Templates
  - G. Configuring Controllers and Access Points Using Templates
  - H. Implementing Application Visibility Control (AVC)
  - I. Configuring Guest Access with Prime Infrastructure
  - J. Configuring Location Services
  - K. Using Location Services
  - L. Customizing a Home Page
  - M. Basic Network Monitoring Using Prime Infrastructure
  - N. Using Reports