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CISCO

Cisco Managing Enterprise Networks with Cisco Prime Infrastructure (MENPI v4.1)

Due to Covid-19 safety restrictions PhoenixTS will temporarily be unable to provide food to our students who attend class at our Training Center; however, our Break Areas are **currently open** where students will find a constant supply of Coffee, Tea and Water. Students may bring their own lunch and snacks to eat in our breakrooms or at their seat in the classroom or eat out at one of the many nearby restaurants.

Course Overview

Our 5 day, instructor -led, Managing Enterprise Networks with Cisco Prime Infrastructure (MENPI) v4.1 course is a lab-based, hands-on course. The overall goal of the course is to enable you to manage an enterprise wired and wireless network with Cisco® routers, switches, wireless controllers, and access points using the Cisco Prime® Infrastructure solution.

In this course, you will learn how to manage your network with Cisco Prime Infrastructure by adding devices, managing inventory, creating reports, creating wired and wireless device maps, monitoring the network, managing device configurations, managing device compliance, and performing system administration tasks. This course also introduces the various services and options available with Cisco Prime Infrastructure.

- Upon completion of this course, you should be able to:
- Navigate the GUI and access the CLI for Cisco Prime Infrastructure
- Add to and manage devices in the Cisco Prime Infrastructure inventory
- Create network maps for wired, wireless, and data center devices
- Create and manage virtual domains and users
- Manage device configurations
- Manage device compliance
- Describe several of the services and options offered by Cisco Prime Infrastructure
- Monitor the network using dashboards, maps, and reports



- Perform system administrative tasks, including monitoring the health of the system and network and performing server backups

Course Outline

Module 1: Cisco Prime Infrastructure Overview

- Introducing Cisco Prime Infrastructure
- Getting Started with Cisco Prime Infrastructure
- Configuring Initial Server Settings
- Introducing Cisco Prime Infrastructure Licenses

Module 2: Inventory Management and Reporting

- Overall Process for Adding Devices to Inventory
- Generating Reports
- Managing the Network Inventory
- Managing Groups
- Managing Network Device Software Images

Module 3: Network Mapping

- Managing Network Topology Maps
- Managing Wireless Maps

Module 4: Role-Based Access Control

- Managing Virtual Domains
- Managing User Authentication and Authorization
- Managing Remote AAA Mode Settings

Module 5: Configuration Management

- Managing the Configuration Archive
- Managing Configurations for Wired Devices
- Managing Configurations for Wireless Devices
- Configuring Plug and Play



Module 6: Compliance Management

- Performing Configuration Audits Using Compliance
- Running Reports to View Device Security Vulnerabilities

Module 7: Services Management

- Introducing Services
- Introducing AVC Services
- Introducing Network Services and Router Virtual Containers

Module 8: Network Monitoring

- Exploring Monitoring Tools
- Monitoring Wired Devices and Data Centers
- Monitoring the Wireless Network
- Monitoring Applications
- Monitoring Clients

Module 9: System Administration

- Monitoring System Health
- Monitoring Network Health
- Monitoring KPIs
- Managing the Server
- Introducing Operations Center for Large Deployments

Labs outline

- Lab 1: Access Cisco Prime Infrastructure
- Lab 2: Configure System Settings
- Lab 3: Credential Profiles
- Lab 4: Manually Add and Import Devices
- Lab 5: Add Devices with Quick Discoveries
- Lab 6: Generate Reports
- Lab 7: Manage the Network Inventory
- Lab 8: Manage Groups
- Lab 9: Manage Device Software Images



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- Lab 10: Manage Network Topology Maps
- Lab 11: Manage Wireless Maps
- Lab 12: Create a Virtual Domain
- Lab 13: Add a User
- Lab 14: Add an ISE Server
- Lab 15: Manage the Configuration Archive
- Lab 16: View Wired Device Templates
- Lab 17: Create and Deploy Wired Device Templates
- Lab 18: Manage Wireless Device Configurations
- Lab 19: Plug and Play Configuration
- Lab 20: Manage Compliance Features
- Lab 21: Manage AVC and QoS
- Lab 22: Monitor Devices and Interfaces
- Lab 23: Monitor the Wireless Network
- Lab 24: Track Applications
- Lab 25: Track Clients
- Lab 26: Configure Operations Center

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