

Hands-On

# Managing Unified Access Networks with Cisco Prime Infrastructure



## Course Description

This course establishes a strong foundation in managing the full range of Cisco wired and wireless infrastructure using Prime Infrastructure.

During this course you will also explore the Application Visibility and Control capabilities of Prime Infrastructure through monitoring and troubleshooting problems on the network. The course puts the user in the context of a realistic customer scenario, and covers every aspect of Cisco Prime Infrastructure Lifecycle management approach. Students will create Sites, Maps, Deploy configurations, perform device discovery as well as learn to set alarms and troubleshoot network and application issues.

## Students Will Learn

- Describe the architecture, licensing, migration capabilities, assurance, compliance features, and setup of Cisco Prime Infrastructure.
- 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 Infrastructure.
- Perform device discovery 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
- create and customize a wide range of reports using Prime Infrastructure

## Target Audience

This course is intended for you if you are an IT engineer, administrator or manager that needs to know the fundamentals about planning, installing, configuring, troubleshooting, and maintaining Cisco infrastructures using Cisco Prime Infrastructure. This includes SEs, Field Engineers, technical support professionals, network managers, security team members, and administrators.

## Prerequisites

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

## Course Outline

### Module 1: Overview of Managing Unified Access with Cisco Prime Infrastructure

#### Cisco Prime Infrastructure Overview

- Key Features and Licensing
- Lifecycles Mapped to Organizational Roles
- Device Integration and Management

#### Cisco Prime Infrastructure Setup

- Technical Requirements
- Deployment Options
- VMware Deployment Steps Using OVA
- Troubleshooting Install
- Auto Deploy

#### Initial System Administration Tasks in Administer Lifecycle

- License Management
- User Management
- Interface Overview and Management
- System Operations

### Module 2: Design Lifecycle Features and Functions

#### Operational Roles and Features in Design Phase

- Design and Pre-deployment Engineer and Tasks
- Design Lifecycle Features

## **Creating Sites and Maps**

- Create Sites
- Endpoint Association
- Create Maps

## **Cisco Prime Infrastructure Templates**

- Day Zero Configuration and Guided Workflows
- Default Templates
- CLI Templates
- Wireless Templates
- Using Composite Templates

## **Creating Sites**

- Plug and Play device deployment
- Creating Sites
- Setup Virtual Domains

## **Creating Maps**

- Creating Maps
- Using the Mapping Features

Lab: Creating Users and Groups

Lab: Creating Sites and Maps

## **Module 3: Deploy Lifecycle Features and Functions**

### **Operational Roles and Features in Deployment Phase**

- Deployment Engineer and Tasks
- Deploy Lifecycle Features

## **Deploying Device Configurations**

- Create Deployment Tasks
- Schedule a Deployment
- Using the Automated Deployment Profiles

Lab: Deploying Configurations Using Templates

## **Module 4: Operate Lifecycle Features and Functions**

### **Operational Roles and Features in Operation Phase**

- Operations Workforce and Tasks
- Operate Lifecycle Features

### **Discovery and Management Functionalities for Network Engineers and Administrators** **Device Work Center Network Assurance**

### **Monitoring and Management Functionalities for Network Operations Center**

- Alarms and Events
- Monitoring
- Maps
- Context Aware for location
- Clean Air
- wIPS

### **Troubleshooting and Problem Isolation Functionalities for Helpdesk and Support**

- Clients and Users
- Operational Tasks
- Common Scenarios

Lab: Using Device Work Center  
Lab: Monitoring, Alarms, Events and Troubleshooting  
Lab: Using Reports

## **Module 5: Report Lifecycle Features and Functions**

### **Operational Roles and Features in Reporting Phase**

- Who in the IT Workforce Needs Reports?
- Which Reports They Need?

### **Cisco Prime Infrastructure Reports**

- Reports Dashboard
- Scheduling Reports
- Compliance Reports

## **Delivery Method**

Instructor-Led with numerous Hands-On Labs and exercises.

## **Equipment Requirements**

**(This apply's to our hands-on courses only)**

Customer On-Site equipment is needed for Non-Intrusive training.

BTS always provides equipment to have a very successful Hands-On course. BTS also encourages all attendees to bring their own equipment to the course. This will provide attendees the opportunity to incorporate their own gear into the labs and gain valuable training using their specific equipment.

## Course Length

3 Days