

## **NT-C98WF6: Configuring Cisco Catalyst 9800 and Intro to Wi-Fi 6**

Course Code: NT-C98WF6

Duration: 3 days

Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

### **OVERVIEW**

Configuring Cisco Catalyst 9800 and Intro to Wi-Fi 6 (C98WF6) is a course designed to help students understand how the Catalyst 9800 Series wireless controllers combine the best of RF excellence with IOS XE benefits.

This course begins with a description of the Cisco Catalyst 9800 and its benefits while introducing the learner to Wi-Fi 6. The configuration, migration, and troubleshooting will also be covered in this instructor-led course.

### **SKILLS COVERED**

Upon completing this course, the learner will be able to meet these overall objectives:

- Describe Cisco Catalyst 9800
- Understand the Benefits for Catalyst 9800
- Configure Catalyst 9800
- Migrate to the Catalyst 9800
- Troubleshoot the Catalyst 9800
- Understand and Discuss WIFi6

### **WHO SHOULD ATTEND?**

The primary audience for this course is as follows:

- Cisco Partners and customers interested in the Catalyst 9800 wireless controller

### **PREREQUISITES**

The knowledge and skills that the learner should have before attending this course are as follows:

- Understanding of Wi-Fi technologies (CCNA Level)

### **MODULES**

#### **Module 1: Cisco Catalyst 9800 Wireless Controller and Wi-Fi 6**

- Introduction to Cisco Catalyst 9800 Wireless Controller
- Cisco Catalyst 9800 Wireless Controller On-Prem and Cloud

#### **Module 2: Wi-Fi 6 and Wi-Fi 6E**

- Wireless Evolution
- Wi-Fi 6
- Wi-Fi 6E

#### **Module 3: Wireless Setup – Basic**

- VLAN
- Tags
- Location

#### **Module 4: Authentication Mechanisms**

- Authentication Types
- MAB Authentication

#### **Module 5: Wireless Setup – Advanced**

- WLC Deployment Options
- FlexConnect
- Resiliency
- FlexConnect Configuration

- AireOS vs. WLC C9800

### Module 6: Mobility

- Introduction to Mobility
- Mobility Groups
- Configuring Mobility Groups
- Verify Mobility

### Module 7: Guest Anchor Mobility

- Guest Flow
- Guest Anchor Mobility
- Guest Anchor Configuration
- Scenario #1: Foreign / Anchor – C9800
- Scenario #2: Foreign – C9800, Anchor – AireOS
- Scenario #3: Foreign – AireOS, Anchor – C9800

### Module 8: Application Visibility and Control Feature

- Application Visibility and Control
- Prerequisites and Restrictions
- QOS Workflow

### Module 9: Backup and Restore Licensing

- Configuration Backup
- Restore Configuration
- Licensing

### Module 10: High Availability

- High Availability Design with Cisco Catalyst 9800 Wireless Controllers
- High Availability: N+1 Redundancy
- High Availability: Stateful Switchover (SSO)
- High Availability: Failover Scenarios
- SSO Best Practices
- Access Point Redundancy
- LACP, PAGP Support in SSO Pair

### Module 11: Software Updates

- Software Patching Capability
- Software Maintenance Update
- Rolling AP Update/Upgrade Infrastructure
- Controller Software Upgrade

### Lab Outline

Labs are designed to assure learners a whole practical experience, through the following practical activities:

- Lab 1: Create VLAN
- Lab 2: Create Location
- Lab 3: Create Mpsk SSID
- Lab 4: WLC and ISE Integration
- Lab 5: Create and Test Ipsk SSID
- Lab 6: Implement FlexConnect WLAN Deployment on 9800 WLC
- Lab 7: Flex Connect Group
- Lab 8: Mobility Tunnel Setup
- Lab 9: Guest Anchor Mobility
- Lab 10: QOS and AVC
- Lab 11: Perform 9800 WLC Maintenance
- Lab 12: 9800 WLC Troubleshooting
- Lab 13: High Availability SSO for Centralized Cisco 9800 WLC
- Lab 14: Perform 9800 WLC Upgrade In HA Pair

The labs use C9800 17.7.1 software code and ISE 3.1.0 code

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