Configuring Cisco Catalyst 9800 and Intro to WIFI6

Duration: 3 Days **Course Code: N1-C98WF6** **Version: 2.0** **Delivery Method: Company Event**

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.
The course qualifies for 24 Cisco Continuing Education Credits (CE).

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

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Target Audience:

The primary audience for this course is as follows:
Cisco Partners and customers interested in the Catalyst 9800 wireless controller

Objectives:

- 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
- **What's New in C98WF6?**
- The updated version of this course covers newer topics, including:
- Multi Preshared key authentication
- Identity Preshared Key authentication
- C9800 and ISE integration
- FlexConnect using Dot1x authentication
- In depth troubleshooting using C9800 platform for wireless clients
- Flexconnect groups
- QOS to block social media websites
- The labs use C9800 17.7.1 software code and ISE 3.1.0 code.

Prerequisites:

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

- Understanding of Wi-Fi technologies (CCNA Level)
- CCNA - Implementing and Administering Cisco Solutions

Testing and Certification

- *N\A*

Follow-on-Courses:

None recommended

Content:

Course Outlines

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

Labs Outlines

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.

Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

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