Design and Deploy Advanced Cisco Wireless (DDACW)

Cisco – CCNP Wireless Bootcamp 1 – DDACW

Course Title: Design and Deploy Advanced Cisco Wireless

Combines: CCNP Wireless courses WiDESIGN and WiDEPLOY

This is a 6-day combination course which offers a significant time saving over the traditional 2 * 5-day courses.

This course is most suitable for individuals already pursuing their CCNP on older versions of the CCNP courses.

The content in this course is designed to be complementary with the Optimize and Secure Advanced Cisco Wireless (OSACW) course. Together, these two courses will prepare you for the four CCNP Wireless exams (WiDESIGN, WiDEPLOY, WiSECURE, WiTSHOOT) as well as cover the same material in the WCMX course.

This course will provide the needed and most up-to-date content on Cisco's best practices around designing and deploying WLANs and will also provide product and feature overviews aligned with the latest released versions.

Description

DDACW Training for CCNP Wireless Certification

Course Objectives

You will learn about the many options required into today's corporate environment including:

- Data, Voice and Location- how to design and deploy each individually or all in a mixed environment
- AP only, Centralized Controller, FlexConnect, Converged Access and Cloud deployments
- Location, MSE and CMX including the following versions:8.0, 10.0, 10.2 and Cloud Based CMX
- Third Party Tools. This course goes beyond the introductory lessons in the CCNP courses and gives you and in-depth overview of fully leveraging these tools in your environment today including, in-depth labs on Ekahau Pro and MetaGeek Chanalyzer.

Pre-Requisites (Recommended)

We recommend students have at least a CCNA Wireless or 1-2 years of real-world experience prior to attending.

Seasoned engineers new to wireless will be able to learn the material however, it will be a long and fast-paced week.

Exam Required for CCNP Certification

Cisco 300-360 WiDESIGN
Cisco 300-365 WiDEPLOY
Cisco 300-375 WiSECURE
Cisco 300-370 WiTSHOOT

Proctored exams, each: 90 minutes (55-65 questions)
Exam proctor: PearsonVUE

DDACW Course Outline

Day 1 – 3: Designing and Deploying Advanced Cisco Wireless Networks

- Determining Customer Design Technical and Business Objectives
- Determining the Type of Wireless Design
- Cisco Wireless Product Portfolio Deep Dive
- Planning and Designing for RF
- Describing Deployment Models
- Describing Campus Considerations
- Describing the In-Depth Site Survey
- Describing the Post-Deployment Survey
- Ekahau Pro Deep Dive- Capabilities and Deployment
- MetaGeek Chanalyzer Deep Dive- Capabilities and Deployment
- Implementing the Base Wi-Fi Network
- Configuring Mobility and Roaming Capabilities
- Configuring High Availability Options
- Configuring FlexConnect Capabilities

Labs

- Estimating the Number of APs Using Cisco Prime Infrastructure as a Planning Tool
- Simulating a Layer 1 Sweep with Cisco Spectrum Expert
- Ekahau Site Survey Pro Lab
- MetaGeek Chanalyzer
- Cisco Predictive Planning Lab for Partners
- Separate Traffic Using VLANs and AP Groups
- Implement Wireless LAN Controller Failover in Cisco AireOS
- Perform a Branch Office Deployment with FlexConnect APs
- Implement New Mobility
- Configure Converged Access Mobility Parameters

Day 4 – 5: Design and Deploy Advanced Location

- Location Portfolio Deep Dive- AP, MSE, CMX

- CMX 8.0, 10.0, 10.2 and CMX Cloud Comparison and Update
- Examining Basic Location Concepts
- Describing the Effects of AP Placement on Achievable Accuracy
- Examining the Impact of Client Behavior on Location Capabilities
- Describing the Analysis Process
- Using the Analytics User Interface
- Performing Site Analysis (Presence)
- Implementing CMX Visitor Connect
- Implementing CMX Facebook Wi-Fi

Labs

- Network connectivity verification
- Using CMX analytics
- Implementing Social Auth CMX Visitor Connect
- Implementing Cisco FB Wi-Fi

Day 6: Design and Deploy Advanced Outdoor, Mesh and High Density

- Describing Cisco Capabilities
- Outdoor, Mesh and High Density Portfolio Deep Dive
- Describing RF Planning and Design
- Configuring Outdoor and Mesh Capabilities

Labs

- Configure High-Density Environments
- Configure Indoor Mesh
- Configure Workgroup Bridging