HW-CEWA

CONSTRUCTING ENTERPRISE WLAN ARCHITECTURE

DURATION	LEVEL	TECHNOLOGY	VERTICAL	DELIVERY METHOD	TRAINING CREDITS
5 Days	Professional	WLAN	ICT Infrastructure	Classroom	NA

INTRODUCTION

This five day course is based on large and medium sized WLAN enterprise network deployments. The cariculum introduces how to construct large enterprises WLAN networks, taking into consideration high security, high reliability, layer 3 roaming, Mesh network and Huawei BYOD (Bring Your Own Device) solutions.

AUDIENCE PROFILE

This course is intended for individuals that:

– Wants to become senior WLAN engineers
– Partake in WLAN planning and optimization
– Obtain HCIP-WLAN certification

PREREQUISITES

Before attending this course, delegates should meet the following prerequisites:

– HCIA – WLAN certification or similar knowledge

COURSE OBJECTIVES

On completion of this course, participants should be able to:

– Demonstrate a comprehensive and thorough understanding of Huawei WLAN products and technologies
– ability to use WLAN product to plan, design, deploy and optimize WLAN of large and medium-sized enterprises.

COURSE CONTENT

Lesson 1 : Introduction to Large-Scale WLANs
– Typical WLAN Application of Large-sized Campus Network
– Configuring APs to Go Online
– VLAN Pool Introduction
– Large-sized WLAN Introduction
– Maintain WLAN Basic

Lesson 2: WLAN Radio Management
– WLAN Radio Resource Management Introduction
– Radio Calibration
– AP-based Load Balancing
– Band Steering
– User CAC
– Smooth Channel Switching
– Per Packet Power Adjustment

Lesson 3: Introduction to WLAN WIDS
– WLAN WIDS Introduction
– Wireless Intrusion Detection and Prevention
– Attack Detection
– WIDS Configuration
– Typical Application Scenarios

Lesson 4: Deployment of WLAN Secure Connectivity Services
– WLAN Access Authentication
– Agile Controller Introduction
– Agile Controller Typical Configuration

Lesson 5: Interconnecting the Agile Controller-Campus with servers
– Deploy Agile Controller in Large-sized network
– Directory server
– Agile Controllers connects with external authentication source
– Application in Wireless Authentication

Lesson 6: WLAN Inter-AC Roaming
– Introduction to WLAN Roaming
– Distinguish between Different Roaming
– Inter AC Roaming
– Applicable Scenarios of WLAN Roaming

− Configure Layer 3 Roaming

Lesson 7: WLAN Smart Roaming
− Smart Roaming Overview
− Applicable Scenarios of Smart Roaming
− Process of Smart Roaming
− Configure Smart Roaming

Lesson 8: High WLAN Reliability: Available Network
− WLAN Reliability Overview
− WLAN Dual-Link Backup Introduction
− N+1 Backup Introduction

Lesson 9: High WLAN Reliability: Hot Standby Backup
− Hot-Standby Backup Introduction
− Hot-Standby Backup Principle
− Applicable Scenarios of Hot-Standby Backup
− Configure Hot-Standby Backup

Lesson 10: Deployment of Huawei Outdoor Aps
− Applicable Scenarios of Deploying Outdoor AP
− WLAN Outdoor Coverage
− Fresnel zone

Lesson 11: Huawei Outdoor Aps and Antennas
− Huawei Outdoor AP Introduction
− Huawei Antenna
− Antenna Selection

Lesson 12: Building a Wireless Mesh Network
− Mesh Overview
− Mesh Concept
− Mesh Architecture
− Establish Mesh Network
− Applicable Scenarios of Mesh
− Configure Mesh Network

ASSOCIATED CERTIFICATIONS & EXAM

The HCIP-WLAN-CEWA certification exam (#H12-321) includes but not limited to the following: Large-Scale WLANs, WLAN Radio Management, WLAN WIDS, Deployment of WLAN Secure Connectivity Services, Interconnecting the Agile Controller-Campus with Servers, WLAN Inter-AC Roaming, High WLAN Reliability, Building a Wireless Mesh Network.