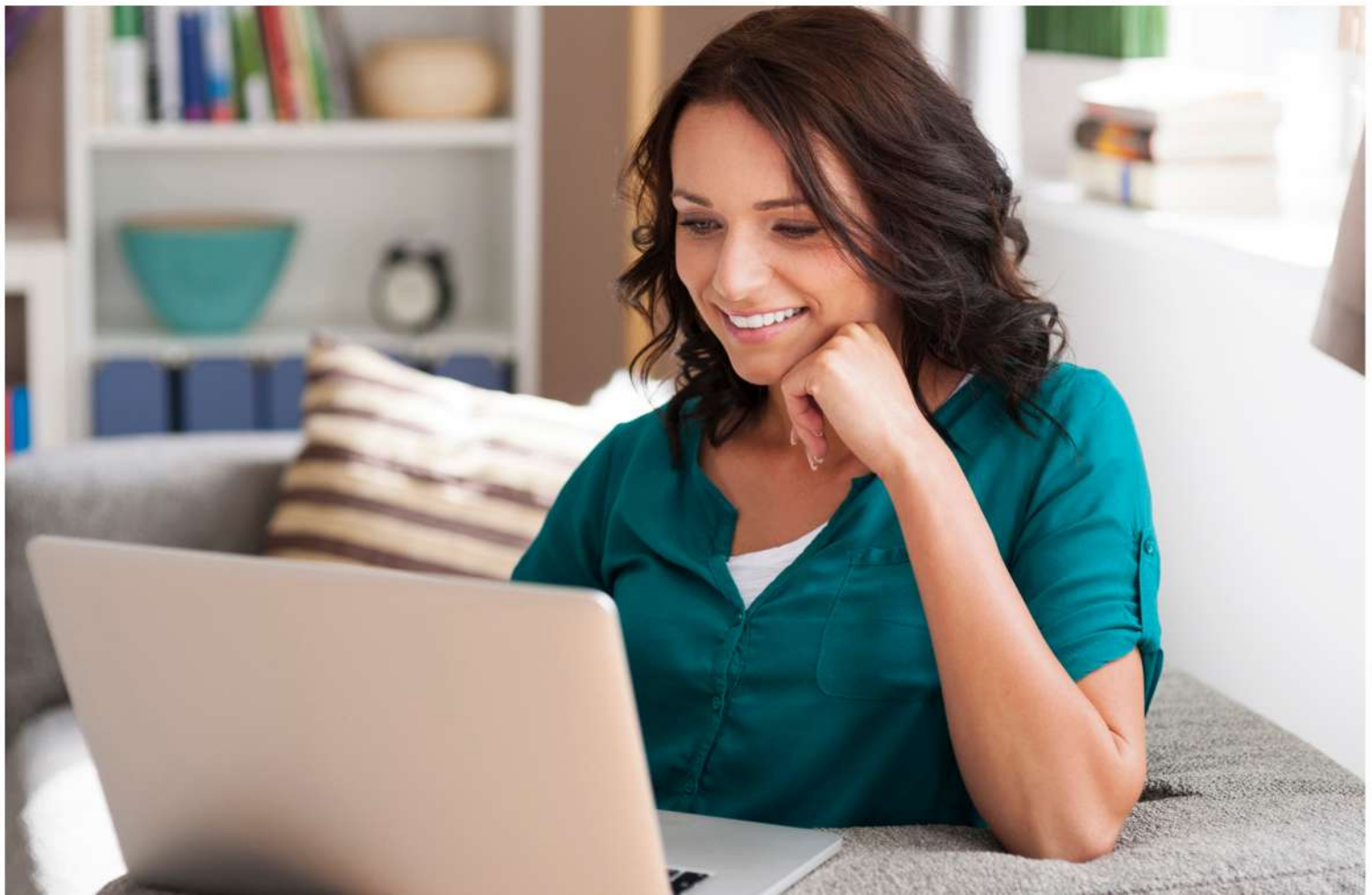


**HCIE-WLAN**



# **Online Course**

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## Course Modules

### 1. Huawei WLAN Certification Overview

- Introduction to Huawei WLAN Career Certification
- Introduction to WLAN Reliability
- Improving Wireless User Experience
- Building a Secure, Trustworthy WLAN Campus Network
- Building an Open, Converged WLAN Campus Network
- WLAN O&M and Optimization
- WLAN Network Planning and Deployment

### 2. WLAN Networking Technology

- WLAN Networking Architecture
- Principles and Configurations of Navi AC
- Principles and Configurations of Leader AP
- Principles and Configurations of Mesh
- Principles and Configurations of GRE and IPSec VPN

### 3. WLAN Reliability

- WLAN Reliability Overview
- HSB Technologies
- Dual-Link Cold Backup
- N+1 Backup
- CAPWAP Link Failover



## 4.WLAN Roaming

- WLAN Roaming Overview
- WLAN Roaming Technologies
- WLAN Roaming Optimization
- Typical Roaming Scenarios of Huawei WLAN Solution
- WLAN Roaming Fault Rectification

## 5.WLAN Radio Resource Management

- WLAN Radio Calibration
- WLAN Load Balancing
- WLAN Anti-Interference
- WLAN QoS
- VIP User Experience Guarantee

## 6.WLAN Multicast and mDNS

- IP Multicast Fundamentals
- WLAN Multicast Network Optimization
- mDNS and mDNS Gateway





## 7.WLAN Security and Defense

- Overview of WLAN Security Threats and Security Solutions
- WLAN Management Plane Security
- WLAN Control Plane Security
- WLAN Forwarding Plane Security
- WLAN Network Security Configuration Example

## 8.WLAN Network Admission Control (NAC)

- Overview of NAC
- Commonly Used NAC Methods and Their Working Mechanism
- Huawei NAC Solution
- Typical NAC Configuration

## 9.WLAN and IoT Convergence

- Overview and Development Trends of IoT Networks
- Overview of Short-Range Wireless IoT Technologies
- Huawei's CloudCampus IoT Solutions

## 10. WLAN Wireless Positioning Technologies

- Overview of Wireless Positioning
- Implementation of Wireless Positioning Technologies
- Huawei's Wireless Positioning Solutions



## 11. Constructing an IPv6 WLAN

- IPv6 Overview
- IPv6-based WLAN Networking and Applications
- IPv6-based WLAN Access Control
- IPv6-based WLAN Security
- WLAN Evolution to IPv6

## 12. Huawei CloudCampus Solution

- CloudCampus Overview
- Ultra-Broadband Connectivity
- Simplified Network
- Multi-Purpose Network
- Access Authentication
- Intelligent Policy
- Intelligent O&M

## 13. CloudCampus Soln for Large & Medium-Sized Campus

- VXLAN-based Virtualized Campus Network and Solution
- Underlay Design
- Fabric Design
- Overlay Design
- Admission Control and Free Mobility Design
- WLAN Design
- O&M Design



## **14. CloudCampus Solution for Small & Medium-Sized Campus**

- Service Requirements & Challenges Facing Small & Medium-Sized
- Introduction to Huawei CloudCampus Solution
- Huawei CloudCampus Solution Design for Small & Medium-Sized
- Typical Industry Application Scenarios

## **15. CloudCampus Solution Deployment for Large Campus Networks**

- Basic Concepts
- Deployment Planning and Process
- Deployment Guide

## **16. CloudCampus Solution Deployment for Small & Medium-Sized**

- Deployment Process Overview
- Deployment Design
- Software and Hardware Installation
- Deployment
- Service Deployment
- O&M Management
- Acceptance Test

## **17. WLAN Troubleshooting**

- WLAN Troubleshooting Roadmap
- Auxiliary Methods for Troubleshooting WLAN Faults
- WLAN Fault Cases





## 18. Intelligent O&M

- CampusInsight Overview
- CampusInsight Functions and Demonstration

## 19. Enterprise WLAN Optimization Design

- Introduction to Enterprise WLAN Optimization
- Enterprise WLAN Evaluation
- Enterprise WLAN Optimization Solution Design
- Solution Implementation and Acceptance

## 20. Large WLAN Networking Practice

- WLAN Project Lifecycle
- WLAN Project Deliverables
- WLAN Project Cases



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