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1. Overview

This document is the syllabus for the *Building an H3C WLAN V5.0* course. It mainly introduces the examination content of the *Building an H3C WLAN V5.0* course. This document is prepared by H3C University and is mainly used to guide the candidates who participate in the *Building an H3C WLAN V5.0* course examination.

2. Examination Item Description

2.1 Examination Introduction

Participants

There are no special requirements for candidates in this examination. Any person who is not specifically prohibited by H3C can register for the examination directly.

Contents

The examination content includes but is not limited to the content covered by the *Building an H3C WLAN V5.0* course. Most of examination knowledge comes from teaching materials and training, but individual topics may be beyond the scope of the teaching materials and training.

Examination Code

GB0-341

Duration

60 minutes

Number of Questions

50 single/multiple choice questions

Pass Score

The total score is 1000 points. A candidate is considered to pass the examination with at least 600 points.

2.2 Registration

This certification examination is conducted by the H3C University. If you want to take this certification examination, please send email (certification@h3c.com) to inquire and contact the test center for registration.

3. Knowledge Points Distribution

The following describes the distribution of knowledge points in the GB0-341 examination.

Wireless Technology System and Theory

Background Knowledge of the WLAN Technology: WLAN characteristics, related organizations and standards, development process and major technical indicators of 802.11, and basic concepts (SSID, BSS, and ESS) of 802.11 networks.

Fundamentals of Wireless Technologies: relevant properties of electromagnetic waves, conversion between power calculation units, modulation transmission mode of the WLAN, and propagation characteristics of radio waves

IEEE 802.11 protocol suite: 802.11 protocol suite members and protocol standards, working principle of the MAC layer, WEP encryption, wireless security 802.11i (WPA and WPA-PSK), wireless QoS technologies such as 802.11e, 802.11n, and 802.11ac

Introduction to major WLAN equipment: principles and characteristics of Fat APs, principles and characteristics of wireless bridges, working principles and data forwarding flow of wireless controller + Fit AP, principles of antennas, and major parameters

Typical deployment methods of WLAN: Fat AP, bridge, wireless controller + Fit AP

H3C Wireless Product Features and Configuration

Specifications of the H3C Fat AP Series: WA2600 Series, WA4300 Series, and WA4600 Series

Basic functions and configuration of H3C Fat APs: default configurations and common commands (channel, power, SSID, authentication, and encryption) of Fat APs

Advanced features and configurations of H3C Fat APs: user rate limit, wireless bridging, wireless access control, and limitations on the number of users

H3C wireless controller + Fit AP series: product features and main specifications of WX3024E, WX5510E, WX5540E, wireless board, and WA4320-ACN

Basic configurations of H3C wireless controller + Fit AP: default configurations and common commands of the wireless controller + Fit AP

Advanced features and configurations of the H3C wireless switch + Fit AP: wireless air interface rate limit, WLAN user roaming, WLAN user isolation, wireless controller backup, and wireless security authentication

WLAN Survey and Design

WLAN Survey Operation Guide: significance and process of WLAN survey, WLAN signal propagation model and path loss, survey preparations, use of common software and hardware toolkits, and survey output

WLAN indoor coverage survey design: indoor coverage design principles, signal attenuation models, typical indoor coverage application models, and indoor survey techniques

WLAN outdoor coverage survey design: outdoor coverage design principles, and typical outdoor coverage applications

Combination design of the indoor distribution system: WLAN combination system design

principles, common components of the combination system, and typical scene design of the combination system

WLAN Solutions

WLAN solutions for rail transport: basic principles of rail transport, train-to-ground communication system, and rail transport data transmission

WLAN solutions for the medical industry: X-Share, indoor installation, and indoor power division

Wireless positioning application solutions: triangulation, fingerprint positioning, and cupid positioning

WLAN Product O&M Instructions

Engineering installation instructions of WLAN products: component mounting of WLAN products, typical indoor installation procedures and installation methods, typical installation procedures and installation methods

Engineering implementation specifications of WLAN products: engineering installation specifications and precautions of WLAN products

Wireless Product Troubleshooting and Management

Knowledge and skills required for WLAN maintenance personnel: basic data communication knowledge and WLAN basics

Basic content of WLAN product maintenance: content of daily maintenance and common problem handling

Basic configurations and maintenance of the H3C wireless network management: topology discovery, view, performance monitoring, and alarm management of the iMC WSM

WLAN product maintenance precautions: engineering norms and interference source identification

Problem identification and processing methods of WLAN equipment: installation non-compliance, configuration issues, and interference issues

Common operations and troubleshooting methods of STA access

WLAN Optimization Introduction

Operation process of WLAN optimization projects: delivery mode and operation process of WLAN optimization services

General instructions on WLAN optimization project delivery: delivery preparations, delivery process, and acceptance criteria

Note:

The information provided in this document is for reference only and H3C reserves the rights to adjust the questions, time, and scores without notifying candidates.
