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RCWA Exam Study Guide



RCWA

RUCKUS Certified Wi-Fi Associate Exam



Price: \$150 USD

RUCKUS Certification Score

Passing Score: 65%

Questions: 60

Exam Duration: 2 Hours

Study time: 20-60 hours

Language: English only

Validity Period

RCNi Certification is valid for a period of three (3) years.

Retake Policy

Five (5) retakes allowed within one year.

Retakes are restricted as follows:

1st: one (1) immediate retake

2nd: 1-4 days after first retake

3rd-5th: 30-days between each retake

Each attempt is subject to exam fee.

Exam Description

As a RUCKUS Certified Wi-Fi Associate (RCWA), you must be able to design, deploy and manage RUCKUS Wi-Fi solutions in a variety of production environments. This exam assesses your ability to design, configure, administer, troubleshoot, and optimize RUCKUS Wi-Fi solutions.

Ideal Candidate

Before attempting the exam, you should have these critical competencies and experience:

- Foundational Wi-Fi technologies, standards, and concepts
- RUCKUS technologies, products, and solutions
- Designing and planning RUCKUS Wi-Fi solutions
- Wi-Fi solution installation, configuration, and setup
- Wi-Fi solution enhancement through tuning and optimization
- Wi-Fi solution troubleshooting and repair
- RUCKUS Wi-Fi solution management

Preparatory Courses and Study Materials

RUCKUS provides a variety of free online supporting courses listed on page 3 of this document. The Exam Blueprint starting on page 2 an overview of the topics covered in the exam. You can also use the [RCWA Nishell Study Guide](#) (see Other Online Resources below).

Target Audience

This certification is designed for wireless network designers, installers and administrators, Wi-Fi solutions architects and Wi-Fi support engineers tasked with design, installation, configuration, management, administration and troubleshooting of RUCKUS Wi-Fi deployments.

Self-Assessment Worksheet

To help you identify areas to focus your study activities, we offer a [self-assessment worksheet](#) that allows you to rate your confidence on the many topics covered in the exam. Below you'll find a blueprint of these topics with links into support documentation, followed by a list of supporting courseware.

BEFORE SCHEDULING YOUR EXAM

Prepare and test your system by following the instructions in [What to Expect](#) and this [video](#).

QUESTIONS?

Contact rcwa@ruckus.com

P.S. Free 2026 RUCKUS RCWA dumps are available on Google Drive shared by Real4test: <https://drive.google.com/open?id=1Q-WSi7P0UTtbVnPlsPOFn3jjdhrUa43D>

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Moreover, you do not need an active internet connection to utilize Real4test desktop RUCKUS RCWA practice exam software. It works without the internet after software installation on Windows computers. The Real4test web-based RUCKUS RCWA Practice

Test requires an active internet and it is compatible with all operating systems.

RUCKUS RCWA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Wi-Fi Solution Troubleshooting & Repair: This section of the exam measures skills of the Certified Logistics Associate and covers the essential processes for data gathering, analysis, and troubleshooting common issues, such as client connectivity failures and problems with AP-to-controller communication. It requires using diagnostic tools, including built-in speed tests and packet• frame capture, as well as understanding how to use logs and integrate with communication protocols like AAA, Syslog, and SNMP for effective diagnosis and repair.
Topic 2	<ul style="list-style-type: none">• RUCKUS Wi-Fi Solutions: This section of the exam measures skills of the Certified Logistics Technician and covers the detailed, hands-on implementation and setup of RUCKUS solutions, specifically for SmartZone and RUCKUS One platforms. It requires knowledge of initial system setup, implementing licensing, and configuring all core network elements, including clusters, redundancy, AP groups, zones, and advanced WLAN features such as dynamic VLANs and SmartMesh. The section also covers detailed AP configuration steps, best practices for deployment, and setting up security and access controls like RBAC and guest access via captive portals.
Topic 3	<ul style="list-style-type: none">• Designing & Planning a RUCKUS Wi-Fi Solution: This section of the exam measures skills of the Certified Logistics Technician and focuses heavily on the detailed process of planning a RUCKUS Wi-Fi network, including gathering design requirements using site survey tools like Ekahau. It assesses the ability to define strategies for traffic management, load balancing, and network segmentation using technologies like VXLAN. This area also covers selecting the right products for specific use cases, and designing comprehensive security policies that involve RADIUS, PKI, and Role-Based Access Control (RBAC), alongside detailed AP management planning like discovery methods and PoE budgeting.

RUCKUS Certified Wi-Fi Associate Exam Sample Questions (Q49-Q54):

NEW QUESTION # 49

Which log category in SmartZone provides details about AP join requests and firmware compatibility issues?

- A. Events Log
- B. Control Plane Log
- **C. AP Manager Log**
- D. System Log

Answer: C

Explanation:

The AP Manager Log within SmartZone is dedicated to monitoring access point registration, join processes, firmware version checks, and heartbeat communication with the controller.

As stated in the RUCKUS One Online Help - Log Categories and Troubleshooting and the RUCKUS Analytics 3.5 User Guide - Device Connectivity Diagnostics, the AP Manager Log records messages about:

AP registration attempts

Join authorization success/failure

Firmware mismatch detection and upgrade triggers

The System Log covers controller-level events, the Events Log records systemwide notifications, and the Control Plane Log captures traffic flow analytics.

Reference:

RUCKUS One Online Help - SmartZone Logging and Event Analysis

RUCKUS Analytics 3.5 User Guide - Device Join and Firmware Status Analysis RUCKUS AI Documentation - SmartZone Logging Architecture

NEW QUESTION # 50

What must APs support when expanding an existing VLAN pool beyond 32 VLANs in SmartZone?

- A. 802.11ac Wave 2 and above
- B. 802.11k and 802.11r
- C. User traffic profiles
- D. User role profiles

Answer: A

Explanation:

Expanding a VLAN Pool beyond 32 VLANs in SmartZone requires access points that support the 802.11ac Wave 2 standard or higher.

According to RUCKUS One Online Help - VLAN Pooling and Dynamic VLAN Assignment, older AP platforms (prior to 802.11ac Wave 2) are limited to 32 VLANs due to hardware constraints in VLAN ID indexing and memory allocation. Wave 2 and newer models (including Wi-Fi 6 and 6E APs) support expanded VLAN pools up to 64 or more entries.

This capability enables more granular segmentation of large user groups, especially in high-density enterprise or education environments where dynamic VLAN assignment distributes clients evenly across multiple subnets.

User role and traffic profiles handle authentication and QoS mapping, not VLAN scalability. 802.11k and 802.11r improve roaming, not VLAN allocation.

Therefore, 802.11ac Wave 2 and above hardware is required to support VLAN pools beyond 32 entries.

Reference:

RUCKUS One Online Help - SmartZone VLAN Pooling and Hardware Requirements RUCKUS Analytics 3.5 User Guide - VLAN Pooling and Client Distribution Reports RUCKUS AI Documentation - VLAN Assignment and Wave 2 Platform Capabilities

NEW QUESTION # 51

What unit is commonly used to display RSSI values?

- A. Ohms
- B. Watts
- C. dBi
- D. dBm

Answer: D

Explanation:

RSSI (Received Signal Strength Indicator) is a key measurement representing the power level of a received RF signal. It is typically displayed in dBm (decibel-milliwatts), a logarithmic unit that expresses the power relative to 1 milliwatt. In Wi-Fi systems, RSSI values usually range between -30 dBm (excellent) and -90 dBm (very weak).

According to the RUCKUS One Online Help and the RUCKUS Analytics 3.5 User Guide, signal strength metrics shown in dashboards, client views, and RF reports are represented in dBm for consistency across platforms. This allows network engineers to correlate signal levels with client connectivity performance and thresholds used for roaming or troubleshooting.

Other units such as dBi refer to antenna gain, Watts measure absolute power (not typically used in client reporting), and Ohms measure resistance. Thus, dBm is the correct and standard unit used for RSSI measurement in RUCKUS and all IEEE 802.11-based systems.

References:

RUCKUS One Online Help - Radio Settings and Signal Strength Indicators

RUCKUS Analytics 3.5 User Guide - Client Signal and Noise Metrics

RUCKUS AI Documentation - Understanding RSSI, SNR, and RF Metrics

NEW QUESTION # 52

Which RUCKUS feature enables access points to dynamically form wireless backhaul links when Ethernet is unavailable?

- A. BeamFlex+
- B. SmartCast
- C. ChannelFly
- D. SmartMesh

Answer: D

Explanation:

SmartMesh is RUCKUS's adaptive wireless backhaul technology that allows access points to interconnect without relying on

Ethernet cabling. When Ethernet uplinks are not available, a designated Root AP provides upstream connectivity while Mesh APs connect wirelessly to extend coverage.

According to RUCKUS One Online Help - SmartMesh Networking and RUCKUS AI Documentation - Mesh Optimization, SmartMesh automatically selects optimal paths based on link quality, latency, and throughput. The feature supports self-healing and automatic rerouting if a mesh link fails.

Unlike SmartCast (QoS management), ChannelFly (dynamic channel selection), or BeamFlex+ (antenna pattern optimization), SmartMesh is dedicated to resilient wireless backhaul formation.

References:

RUCKUS One Online Help - Mesh Configuration and Deployment

RUCKUS Analytics 3.5 User Guide - Mesh Topology and Link Quality Monitoring RUCKUS AI Documentation - SmartMesh and Adaptive Backhaul Optimization

NEW QUESTION # 53

Which current RUCKUS AP family features an AP model with a PoE output port?

- A. E Series
- B. R Series
- **C. H Series**
- D. M Series

Answer: C

Explanation:

The RUCKUS H Series access points are specifically designed for environments such as hospitality, student housing, and multi-dwelling units, where compact, in-room installation is ideal. A distinctive feature of the H Series—such as the RUCKUS H550 and H510 models—is their PoE output port, allowing the AP to power downstream devices like IP phones, set-top boxes, or security cameras directly through Ethernet.

This design minimizes cabling and infrastructure costs while maintaining enterprise-grade Wi-Fi performance. According to the RUCKUS One Online Help and the official RUCKUS AI documentation, the H550 supports 802.3af at PoE input and provides 802.3af PoE output on one of its Ethernet ports. The feature is highlighted as part of RUCKUS's integrated wired and wireless connectivity solution, combining dual-band Wi-Fi 6 access with switch-like wired connectivity for room-based deployments. The R Series and E Series are ceiling-mounted APs primarily used for large-area coverage and typically do not include PoE passthrough functionality. The M Series (outdoor mesh APs) are designed for outdoor coverage extension, also lacking this downstream PoE capability.

Reference:

RUCKUS One Online Help - Access Point Hardware Descriptions (H550, H510) RUCKUS Analytics 3.5 User Guide - Device Inventory and AP Capability Data RUCKUS AI Documentation - H550 Technical Overview
(docs.cloud.ruckuswireless.com/RUCKUS-AI/userguide/index.html)

NEW QUESTION # 54

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