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RCWA

RUCKUS Certified Wi-Fi Associate Exam



HIGHLIGHTS

How to Register

Register online at the [RUCKUS Certification Store](#)

Passing Score

67% or better

Number of Questions

52

Exam Duration

2 Hours

Proctoring

This exam is **remote proctored**.

See the [What to Expect](#) document for details.

Validity Period

The RCWA Certification is valid for a period of three (3) years

Retake Policy

Once passed, you may not retake the exam except to recertify.

If failed, you may retake the exam immediately, however, after a second attempt you must wait 14 days. After a third or fourth attempt, you must wait 30 days. No more than 5 retakes are allowed within one year from your first attempt.

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.

The price for sitting the exam is \$150 USD.

Ideal Candidate

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

- Basic RF fundamentals and methodologies
- Basic Routing and Switching
- Basic understanding of the IEEE 802.11 standards
- Purpose and methodologies of RF Site Surveys
- Data Networking Services (DHCP/DNS/NAT/Firewall/RADIUS/PoE/HTTP) Certificates/1x/802.11
- RUCKUS Wi-Fi products and supporting software
- RUCKUS differentiating features and their functions (BeamFlex, ChannelFly)

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 is an overview of the topics covered in the exam. You can also use our [RCWA Nutshell Study Guide](#).

Target Audience

This certification is designed for wireless network designers, installers and administrators, Wi-Fi solution 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 courses.

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Guide Torrent

Our RUCKUS Exam Questions greatly help RUCKUS Certified Wi-Fi Associate Exam (RCWA) exam candidates in their preparation. Our RCWA practice questions are designed and verified by prominent and qualified RUCKUS Certified Wi-Fi Associate Exam (RCWA) exam dumps preparation experts. The qualified RUCKUS Certified Wi-Fi Associate Exam (RCWA) exam questions preparation experts strive hard and put all their expertise to ensure the top standard and relevancy of RCWA exam dumps topics.

RUCKUS RCWA Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
Topic 2	<ul style="list-style-type: none">Wi-Fi Solution Enhancement through Tuning and Optimization: This section of the exam measures skills of the Certified Logistics Technician and focuses on advanced techniques for fine-tuning and optimizing Wi-Fi network performance after deployment. It includes balancing load and frequency bands, implementing airtime fairness and decongestion methods, and using advanced 802.11 roaming amendments (k, r, v) to improve client mobility. The section also covers optimizing radio settings, such as Client Admission Control (CAC), and managing channel selection and power optimization, including the use of DFS and RUCKUS AI features.
Topic 3	<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.

RUCKUS Certified Wi-Fi Associate Exam Sample Questions (Q61-Q66):

NEW QUESTION # 61

Which RUCKUS feature protects service quality by prioritizing real-time voice and video traffic over background data flows?

- A. Band Steering
- B. ChannelFly
- C. SmartCast
- D. BeamFlex+

Answer: C

Explanation:

SmartCast is RUCKUS's advanced Quality of Service (QoS) engine that prioritizes latency-sensitive traffic such as voice, video, and real-time collaboration apps.

According to RUCKUS One Online Help - SmartCast Overview and RUCKUS Analytics 3.5 User Guide - QoS Monitoring, SmartCast identifies traffic types using Deep Packet Inspection (DPI) and applies 802.1p/DSCP markings to preserve QoS across wired and wireless segments.

It dynamically manages airtime scheduling and retransmissions to maintain low delay and jitter. Other features-like BeamFlex+ (antenna optimization) or ChannelFly (channel selection)-do not handle traffic prioritization.

Reference:

RUCKUS One Online Help - SmartCast QoS and Traffic Prioritization

RUCKUS Analytics 3.5 User Guide - Application Performance Metrics

NEW QUESTION # 62

Which three Application Policy Rules can be applied to a WLAN? (Choose three.)

- A. VLAN Assignment
- B. URL Filter
- C. Local Breakout
- D. Rate Limit
- E. QoS
- F. Deny

Answer: D,E,F

Explanation:

An Application Policy in SmartZone defines actions applied to identified applications or categories of traffic traversing a WLAN. Using Deep Packet Inspection (DPI), RUCKUS APs recognize application types and enforce predefined behaviors.

According to RUCKUS One Online Help - Application Policy Configuration, the supported rule actions include:

(A) QoS: Assigns priority levels to traffic (Voice, Video, Best Effort, Background) for latency and throughput management.
(B) Deny: Blocks specific applications or categories (e.g., streaming or gaming) to preserve network performance.
(D) Rate Limit: Restricts bandwidth available to defined applications, ensuring fair use of airtime and bandwidth resources.
Local Breakout and VLAN Assignment are functions of traffic forwarding and device policy, not application policy. URL filtering is managed under separate content control modules, not part of Application Policies.

Reference:

RUCKUS One Online Help - Application Policy and DPI-Based Traffic Rules RUCKUS Analytics 3.5 User Guide - Application Visibility and Enforcement Metrics RUCKUS AI Documentation - Application Prioritization and Rate Control Logic

NEW QUESTION # 63

Which RUCKUS technology helps optimize channel use by measuring actual throughput performance rather than noise levels alone?

- A. PD-MRC
- B. BeamFlex+
- C. SmartCast
- D. ChannelFly

Answer: D

Explanation:

ChannelFly is RUCKUS's machine learning-based dynamic channel selection technology. It evaluates real-time throughput on each channel rather than relying only on noise or interference metrics to determine the best operating channel.

As outlined in RUCKUS One Online Help - ChannelFly Operation and RUCKUS AI Documentation - Channel Optimization, ChannelFly continuously monitors channel conditions and switches to those offering higher capacity.

This ensures maximum real-world performance, especially in dense environments with unpredictable interference.

BeamFlex+ adjusts antenna patterns, SmartCast prioritizes traffic, and PD-MRC enhances signal reception but do not handle channel learning or selection.

References:

RUCKUS One Online Help - ChannelFly Dynamic Channel Selection

RUCKUS Analytics 3.5 User Guide - Channel Efficiency and Throughput Analysis RUCKUS AI Documentation - Adaptive Channel Learning Algorithms

NEW QUESTION # 64

What is a true statement regarding MIMO in Wi-Fi networks?

- A. It needs support on the AP only.
- B. It is supported upstream only.
- C. It was introduced in 802.11n.
- D. It uses a single transmitter.

Answer: C

Explanation:

MIMO (Multiple Input, Multiple Output) is a fundamental wireless technology that enhances Wi-Fi throughput and reliability by transmitting multiple data streams simultaneously using multiple antennas on both the transmitter and receiver. It was introduced in the IEEE 802.11n standard, which marked the beginning of high-throughput (HT) Wi-Fi.

According to RUCKUS One Online Help and the RUCKUS Analytics 3.5 User Guide, MIMO enables spatial multiplexing, diversity gain, and beamforming, allowing higher data rates and improved signal quality in multipath environments. Subsequent standards (802.11ac and 802.11ax) expanded this concept to MU-MIMO (Multi-User MIMO), allowing simultaneous communication with multiple clients.

MIMO requires support on both the AP and client for full functionality; otherwise, the connection falls back to single-stream operation. It is used in both uplink and downlink directions (especially in Wi-Fi 6 and later). Thus, option B-introduced in 802.11n-is correct, while options A, C, and D are incorrect.

Reference:

RUCKUS One Online Help - PHY Technologies and MIMO Concepts

RUCKUS Analytics 3.5 User Guide - Radio Metrics and Client PHY Data

RUCKUS AI Documentation - Wi-Fi 6 (802.11ax) MIMO and MU-MIMO Capabilities

NEW QUESTION # 65

Which technology listens to clients on both horizontal and vertical planes to determine the best signal to use for each client?

- A. Tx Beamforming
- B. ChannelFly
- **C. PD-MRC**
- D. SmartCast

Answer: C

Explanation:

PD-MRC (Polarization Diversity - Maximal Ratio Combining) is a patented RUCKUS technology that enhances Wi-Fi signal reception by listening to client transmissions on both the horizontal and vertical polarization planes. This approach helps overcome signal degradation caused by multipath, reflections, and client device orientation.

According to the RUCKUS One Online Help and RUCKUS AI technical documentation, PD-MRC dynamically selects and combines the signal from both polarization domains to maximize the received signal- to-noise ratio (SNR). This technology works synergistically with BeamFlex, RUCKUS's adaptive antenna system, to provide optimal signal gain and link reliability per client. SmartCast is used for traffic prioritization and QoS management, ChannelFly handles dynamic channel selection using machine learning, and Tx Beamforming optimizes transmit signal direction. However, none of these specifically analyze both horizontal and vertical planes simultaneously.

Therefore, PD-MRC is the correct answer-it provides improved reception performance and overall RF robustness, especially for mobile clients in variable orientations.

References:

RUCKUS One Online Help - BeamFlex and PD-MRC Overview

RUCKUS Analytics 3.5 User Guide - RF Performance and Signal Quality Metrics RUCKUS AI Documentation - Advanced RF Technologies: BeamFlex, PD-MRC, and ChannelFly

NEW QUESTION # 66

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