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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

RCN 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 2025 RUCKUS RCWA dumps are available on Google Drive shared by Test4Cram: https://drive.google.com/open?id=1ze35k_I6kbWlpsy3FX0j0VKR_Ycjc3d

Perhaps you have had such an unpleasant experience about what you brought in the internet was not suitable for you in actual use, to avoid this, our company has prepared RCWA free demo in this website for our customers, with which you can have your first-hand experience before making your final decision. The content of the free demo is part of the content in our real RCWA Study Guide. As long as you click on it, then you can download it. We believe you can have a good experience with our demos of the RCWA learning guide.

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"> • Foundational Wi-Fi technologies, standards & concepts: This section of the exam measures skills of the Certified Logistics Associate and covers the foundational principles of Wi-Fi, including radio frequency (RF) concepts, global 802.11 standards, and frequency channelization up to the latest standards (a • b • g • n • ac • ax • BE). It assesses knowledge of antenna characteristics, the difference between Mesh and point-to-point connections, and the basics of authentication methods, including certificate usage and the high-level steps of client roaming across access points.
Topic 3	<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 4	<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.

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RUCKUS Certified Wi-Fi Associate Exam Sample Questions (Q55-Q60):

NEW QUESTION # 55

When configuring a WLAN for 802.1X, which mode will provide authentication service for APs in the event of a controller failure?

- A. Non-proxy
- B. Dynamic PSK
- C. Local user database
- D. Proxy

Answer: C

Explanation:

When configuring an 802.1X-secured WLAN, RUCKUS systems such as SmartZone, RUCKUS One, or RUCKUS Cloud typically rely on an external RADIUS server for user authentication. However, in the event of a controller failure or connectivity loss to the RADIUS server, RUCKUS APs can continue to authenticate users locally if the local user database is enabled and configured.

The Local Authentication Database allows APs or controllers to store a limited set of credentials that can be used when external AAA services are unavailable. This ensures continued access and redundancy for critical WLANs without requiring external dependency. According to RUCKUS One Online Help - WLAN Configuration and AAA Settings, enabling the Local Authentication Database provides fallback authentication for 802.1X clients during system or connectivity failures.

In contrast, the proxy and non-proxy modes define how authentication requests are relayed to the RADIUS server, while Dynamic PSK (DPSK) is a separate authentication method that replaces 802.1X with per-user keys.

Reference:

RUCKUS One Online Help - WLAN Configuration: AAA Authentication and Fallback Options RUCKUS Analytics 3.5 User Guide - Client Authentication and WLAN Events Ruckus Cloud / RUCKUS AI Documentation - Authentication Mode Descriptions

NEW QUESTION # 56

An admin has created a RUCKUS GRE tunnel profile in SmartZone.

Why is the new tunnel unavailable in the GRE Tunnel Profile dropdown when configuring the WLAN?

- A. The maximum GRE tunnel count has been reached.
- B. WLAN does not support GRE tunnels.
- **C. GRE tunnel has not been associated with an AP Zone.**
- D. A split tunnel profile has not been created.

Answer: C

Explanation:

In SmartZone, Generic Routing Encapsulation (GRE) tunnels are used to encapsulate client traffic and forward it to a remote gateway, typically for security or centralized routing.

As described in RUCKUS One Online Help - GRE Tunneling Configuration, a tunnel profile becomes available for WLAN association only when it is explicitly linked to an AP Zone. This ensures that all APs in the zone can apply the correct tunnel endpoint and keying parameters.

If a GRE profile is not mapped to a zone, it will not appear in the WLAN configuration dropdown, even if successfully created.

Other options are incorrect because SmartZone supports GRE for WLANs by design, split-tunnel profiles are optional, and tunnel count limitations are far higher than typical enterprise use.

Reference:

RUCKUS One Online Help - GRE Tunnel Profile Configuration and Zone Binding RUCKUS Analytics 3.5 User Guide - Tunnel Status and Performance Metrics RUCKUS AI Documentation - GRE Tunneling Architecture and Troubleshooting

NEW QUESTION # 57

Which SmartZone controller interface is present only in the physical hardware appliance?

- A. Management
- B. Control
- C. Cluster
- **D. Data**

Answer: D

Explanation:

The Data Interface is unique to physical SmartZone (SZ) hardware appliances such as the SmartZone 100 (SZ-100) or SmartZone 300 (SZ-300). This interface handles user traffic data forwarding in hardware-based deployments and is not present in virtualized versions such as the vSZ (Virtual SmartZone).

According to the RUCKUS One Online Help and SmartZone system architecture descriptions, the physical controller includes four main interfaces:

Management Interface: Handles GUI, CLI, and administrative access.

Control Interface: Manages control-plane communications with access points.

Cluster Interface: Manages synchronization and redundancy between cluster members.

Data Interface: Dedicated for data-plane traffic processing and forwarding (exclusive to physical appliances).

Virtual SmartZone controllers use tunnel-based data forwarding (via GRE or VXLAN) instead of a dedicated hardware Data Interface. Hence, the Data interface exists only on physical appliances, making A the correct answer.

Reference:

RUCKUS One Online Help - SmartZone Controller Network Interfaces

RUCKUS Analytics 3.5 User Guide - Controller Data Plane Monitoring and Interface Metrics RUCKUS AI Documentation - SmartZone Hardware Architecture Overview (docs.cloud.ruckuswireless.com/RUCKUS-AI/userguide/index.html)

NEW QUESTION # 58

When designing a WLAN for VoIP, what percentage of airtime utilization and RSSI threshold should be maintained?

- A. Under 50% utilization and -65 dBm minimum
- B. Above 60% utilization and -69 dBm minimum
- C. Under 75% utilization and -70 dBm minimum
- D. Above 55% utilization and -60 dBm minimum

Answer: A

Explanation:

For Voice-over-Wi-Fi (VoWiFi) deployments, RUCKUS recommends maintaining airtime utilization under 50% and ensuring a minimum RSSI of -65 dBm at the edge of coverage areas to guarantee clear call quality and low latency.

According to RUCKUS One Online Help - WLAN Design for Real-Time Applications and RUCKUS AI Documentation - VoIP Quality Optimization, these thresholds ensure a Signal-to-Noise Ratio (SNR) above 25 dB, keeping jitter under 30 ms and packet loss below 1%.

RUCKUS SmartCast QoS automatically prioritizes voice packets (802.11e WMM Voice AC) to further protect call performance, but maintaining low channel congestion remains critical.

RUCKUS Analytics 3.5 User Guide - Airtime and Voice Traffic Metrics emphasizes monitoring airtime utilization through dashboards to verify compliance with design thresholds.

Reference:

RUCKUS One Online Help - Designing for Voice over Wi-Fi (VoWiFi) Guidelines RUCKUS Analytics 3.5 User Guide - Airtime Utilization and Voice Quality Metrics RUCKUS AI Documentation - Real-Time Application Optimization and QoS Design

NEW QUESTION # 59

What is the most effective RUCKUS tool to identify chronic connectivity failures affecting specific clients over time?

- A. Cluster Diagnostics
- B. SmartMesh Dashboard
- C. RUCKUS Analytics
- D. SmartZone Trace Tool

Answer: C

Explanation:

RUCKUS Analytics provides historical and AI-driven insights into network health and client connectivity trends. It identifies chronic connectivity issues, such as repeated association failures, high retry rates, or roaming delays, over extended timeframes.

According to the RUCKUS Analytics 3.5 User Guide - Client Troubleshooting and Service Assurance, the platform uses machine learning to analyze large volumes of telemetry data from APs, automatically flagging recurring issues per client or SSID.

The SmartZone Trace Tool captures short-term packet traces, while Cluster Diagnostics and SmartMesh Dashboard focus on infrastructure health-not client behavior.

Reference:

RUCKUS Analytics 3.5 User Guide - Client Experience and Failure Pattern Analysis RUCKUS One Online Help - RUCKUS Analytics Integration and Insights RUCKUS AI Documentation - Predictive Issue Detection and Root Cause Analysis

NEW QUESTION # 60

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