



Pass Guaranteed 2026 Professional RUCKUS RCWA Free Exam

RCWA Exam Study Guide



RCWA

RUCKUS Certified Wi-Fi Associate Exam



HIGHLIGHTS

How to Register
Register online at the [RUCKUS Certifications 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/NTP/Certificates/LDAP)
- 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 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 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.



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RUCKUS Certified Wi-Fi Associate Exam Sample Questions (Q64-Q69):

NEW QUESTION # 64

Which environmental factor most significantly impacts AP placement in high-density venues like stadiums or auditoriums?

- A. DHCP lease duration
- B. Controller cluster size
- **C. Ceiling height and material**
- D. VLAN segmentation strategy

Answer: C

Explanation:

In high-density environments such as stadiums or auditoriums, ceiling height and material directly influence signal propagation, attenuation, and AP coverage patterns.

As defined in RUCKUS One Online Help - High-Density Wi-Fi Design Guidelines, proper AP placement and downtilt must account for ceiling height and reflective surfaces to avoid co-channel interference and ensure sufficient SNR for every seat zone.

RUCKUS Wi-Fi Planner includes modeling tools for line-of-sight optimization and reflective surface analysis. DHCP and VLAN configurations affect logical segmentation but not physical RF propagation.

References:

RUCKUS One Online Help - High-Density Deployment Design Considerations

RUCKUS Analytics 3.5 User Guide - RF Utilization and Capacity Reports

RUCKUS AI Documentation - RF Design Optimization for Dense Environments

NEW QUESTION # 65

Which three external proxy and non-proxy authentication services are available in SmartZone?

(Choose three.)

- A. OAuth
- B. TACACS+
- **C. LDAP**
- **D. AD**
- E. SAML
- **F. RADIUS**

Answer: C,D,F

Explanation:

SmartZone controllers support a range of external authentication services for both proxy (via controller) and non-proxy (direct-to-AAA) authentication mechanisms. According to the RUCKUS One Online Help - Authentication Services Configuration, the supported external services include:

* Active Directory (AD) (A): Used for domain-based user authentication and group policy enforcement.

* Lightweight Directory Access Protocol (LDAP) (B): Provides user authentication through directory lookup, commonly used for enterprise identity systems.

* RADIUS (E): A widely used AAA protocol that integrates with external servers such as FreeRADIUS, Cisco ISE, or Microsoft NPS for centralized authentication and accounting.

While SAML and OAuth are used in RUCKUS Cloud and RUCKUS One for SSO (Single Sign-On) and API authentication, they are not used for WLAN or AAA authentication within SmartZone. TACACS+ is not supported as an external client authentication method in SmartZone (it is only used for admin login on some platforms).

Therefore, the correct authentication services are A (AD), B (LDAP), and E (RADIUS).

References:

RUCKUS One Online Help - WLAN Authentication and AAA Integration

RUCKUS Analytics 3.5 User Guide - Authentication Logs and Proxy Mode Analysis RUCKUS AI Documentation - SmartZone

AAA and External Authentication Architecture

NEW QUESTION # 66

Which task will throttle download speeds on all ChromeOS devices on the STUDENT SSID and segment their device traffic into a separate VLAN?

- A. Create a new WLAN for ChromeOS with a rate-limited VLAN.
- **B. Create a Device Policy and apply it to the WLAN.**
- C. Create a Layer 2 Access Control Policy and apply it to the WLAN.
- D. Create an Application Control Policy and apply it to the WLAN.

Answer: B

Explanation:

To throttle download speeds for specific device types-such as ChromeOS devices-and assign them to a dedicated VLAN, the appropriate configuration is to create a Device Policy and apply it to the target WLAN.

According to the RUCKUS One Online Help - Device Policy Management, and RUCKUS AI documentation - Policy Control and Device Analytics, Device Policies can classify client devices based on operating system, MAC OUI, or fingerprinting data. Once identified, administrators can enforce rate limits, VLAN tagging, and access restrictions for that device type.

By applying this policy to the STUDENT SSID, all detected ChromeOS clients will have bandwidth limits applied and their traffic segmented into the configured VLAN for management and security isolation.

Other options-such as Layer 2 ACLs or Application Control Policies-manage packet-level permissions or app-level prioritization, not per-device bandwidth or VLAN segmentation. Creating a new WLAN is unnecessary since RUCKUS policy management allows dynamic device-based enforcement on a single SSID.

Reference:

RUCKUS One Online Help - Device Policy and VLAN Assignment by OS Type

RUCKUS Analytics 3.5 User Guide - Client Behavior and Policy Enforcement Analytics RUCKUS AI Documentation - Policy Control: Device Classification and Rate Limiting

NEW QUESTION # 67

Which type of interference occurs when two APs are configured on channel 7 and channel 8 in the same physical space?

- A. Multipath
- B. Co-channel
- C. Diffraction
- **D. Adjacent**

Answer: D

Explanation:

When two access points operate on overlapping channels in the same frequency band-such as channel 7 and channel 8 in the 2.4 GHz range-they create Adjacent Channel Interference (ACI). Unlike co-channel interference (CCI), which occurs when APs share the exact same channel, ACI results from partial channel overlap that causes energy spillover between adjacent frequencies.

According to RUCKUS One Online Help - Radio Configuration and Channel Planning, adjacent channels in 2.4 GHz are only 5 MHz apart, while each Wi-Fi channel occupies 20-22 MHz of bandwidth. As a result, channels like 7 and 8 significantly overlap, creating degraded performance, retransmissions, and reduced throughput.

RUCKUS's ChannelFly technology in both RUCKUS AI and RUCKUS Analytics helps automatically select non-overlapping channels (such as 1, 6, and 11) to minimize ACI and optimize network capacity.

Therefore, the correct answer is A - Adjacent interference, which directly applies to overlapping channel configurations.

Reference:

RUCKUS One Online Help - Radio Channel Planning and ChannelFly Operation RUCKUS Analytics 3.5 User Guide - RF

Interference Detection and Channel Utilization RUCKUS AI Documentation - Channel Optimization and Interference Management

NEW QUESTION # 68

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

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

- D. Under 75% utilization and -70 dBm minimum

Answer: B

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 # 69

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