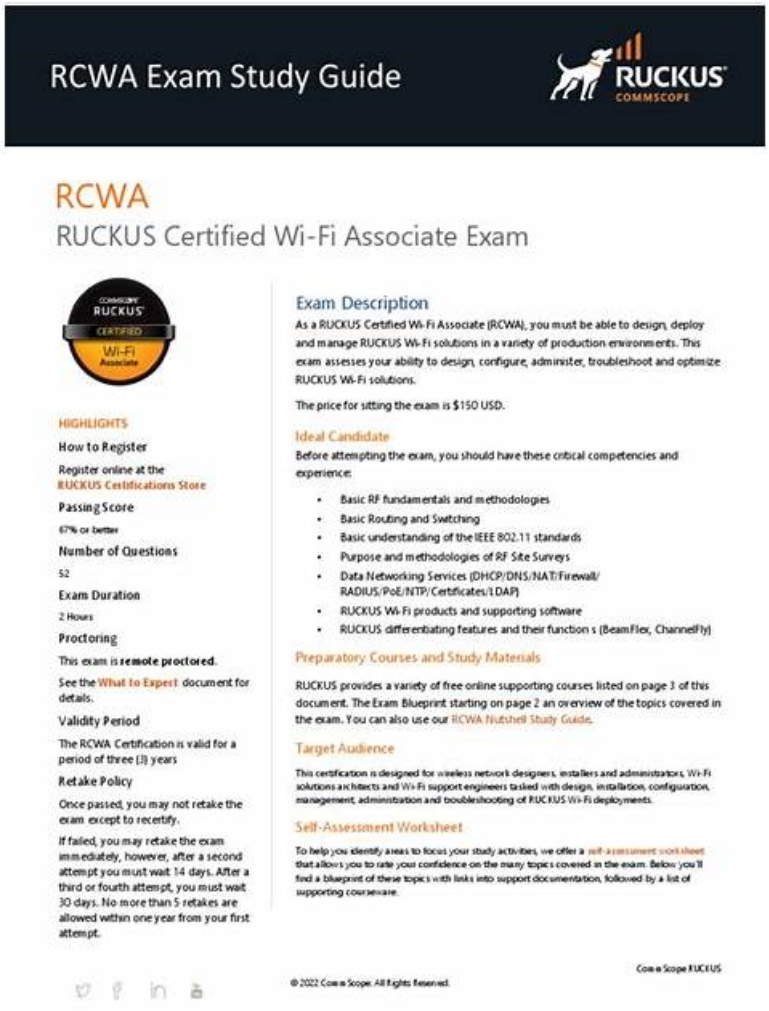
100% Pass 2026 RUCKUS RCWA: RUCKUS Certified Wi-Fi Associate Exam Latest Dumps Book


RCWA Exam Study Guide

RUCKUS COMMSCOPE

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 function s (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 RCWA Exam Syllabus Topics:

Topic	Details

Topic 1	• 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 2	• 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 3	• 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 4	• RUCKUS Technologies, products & solutions: This section of the exam measures skills of the Certified Logistics Technician and covers RUCKUS-specific technologies, such as proprietary Wi-Fi features, Bonjour Gateway, and automated cell sizing capabilities. It focuses on the proper selection and sizing of RUCKUS controllers (SmartZone, Unleashed, ROne • Cloud) and Access Points (APs) based on platform limitations. Furthermore, it includes knowledge of advanced features like clustering, geo-redundancy, initial IoT integration, and the necessary processes for product licensing and using RUCKUS support tools and documentation.
Topic 5	• 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.

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RUCKUS Certified Wi-Fi Associate Exam Sample Questions (Q25-Q30):

NEW QUESTION # 25
Which two statements about Auto Cell Sizing (ACS) are true? (Choose two.)

- A. It can automatically adjust radio power.
- B. It can automatically adjust channel selection.
- C. It requires background scanning to be enabled.
- D. It is enabled by default.
- E. Tx power can be manually adjusted when using Auto Cell Sizing.

Answer: A,C

Explanation:
Auto Cell Sizing (ACS) is a RUCKUS feature designed to automatically optimize the RF environment by dynamically adjusting transmit power levels of access points to ensure balanced coverage and minimal interference between APs.
According to the RUCKUS One Online Help - RF Management and Auto Cell Sizing and RUCKUS AI documentation - RF Optimization Tools, ACS:
Automatically adjusts radio transmit power (B) based on environmental conditions and neighboring AP coverage.
Requires background scanning to be enabled (D) so the system can measure the surrounding RF conditions and interference patterns.
ACS does not automatically adjust channel selection, as that functionality is handled by ChannelFly, a separate RUCKUS technology. It is not enabled by default, and manual power tuning is typically disabled when ACS is active, since the controller manages power dynamically to maintain optimal cell overlap.
Thus, the correct answers are B (it can automatically adjust radio power) and D (it requires background scanning to be enabled).
Reference:
RUCKUS One Online Help - RF Optimization: Auto Cell Sizing and ChannelFly RUCKUS Analytics 3.5 User Guide - RF Health and Adaptive Power Management RUCKUS AI Documentation - Adaptive RF Optimization and Power Adjustment Mechanisms

NEW QUESTION # 26
Which SmartZone controller interface is present only in the physical hardware appliance?

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

Answer: C

Explanation:
TheData Interfaceis unique tophysical SmartZone (SZ) hardware appliancessuch as theSmartZone 100 (SZ-100)orSmartZone 300 (SZ-300). This interface handlesuser traffic data forwardingin hardware-based deployments and isnot presentin virtualized versions such as thevSZ (Virtual SmartZone).
According to theRUCKUS One Online HelpandSmartZone 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 usetunnel-based data forwarding(via GRE or VXLAN) instead of a dedicated hardwareData Interface. Hence, theData interfaceexists only on physical appliances, makingAthe correct answer.
References:
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 # 27
Which two statements are true regarding roaming on RUCKUS WLANs? (Choose two.)

- A. Roaming can be enhanced by building 802.11k neighbor AP lists.

- B. 802.11u Hotspot integration increases roaming speed.
- C. Use of 802.11r Fast-Transition depends on the Encryption option.
- D. 802.11w PMF enables additional probe responses for faster roaming.
- E. 802.11ac Aggregate MMPDUs decrease roam times.

Answer: A,C

Explanation:
Seamless roaming on RUCKUS WLANs is achieved through support for 802.11k, 802.11r, and 802.11v enhancements, which collectively improve handoff efficiency and reduce latency when clients move between APs.
According to RUCKUS One Online Help - Fast Roaming Configuration and RUCKUS AI Documentation - Client Mobility Optimization, the following statements are true:
802.11k (C): Enables APs to provide Neighbor Reports listing surrounding APs and their channels, allowing clients to make faster and more intelligent roaming decisions.
802.11r (D): Implements Fast BSS Transition (FT), reducing authentication delay during roaming by pre-establishing encryption keys. However, its operation depends on the encryption type-it is supported only with WPA2-Enterprise (802.1X) and WPA2/WPA3-Personal modes, not open WLANs.
The other options are incorrect: 802.11ac aggregation does not affect roaming; 802.11u supports Hotspot 2.0, not fast transition; and 802.11w (PMF) adds management frame protection, not roaming enhancements.
Thus, the correct answers are C (802.11k neighbor lists) and D (802.11r depends on encryption type).
Reference:
RUCKUS One Online Help - 802.11k/v/r Roaming Enhancements
RUCKUS Analytics 3.5 User Guide - Client Roaming and Transition Events
RUCKUS AI Documentation - Fast Roaming Optimization and Encryption Dependencies

NEW QUESTION # 28
The Background Scanning interval is increased to 90 seconds. Which three processes will take longer to update their data? (Choose three.)

- A. Auto power adjustment
- B. Spectrum analysis
- C. Connected client count
- D. Rogue AP detection
- E. Auto-channel selection
- F. Channel throughput measurement

Answer: A,D,E

Explanation:
Background Scanning in RUCKUS APs allows radios to periodically scan other channels to collect RF environment data while still serving clients. The scan interval determines how often the AP samples channel information for features like ChannelFly, Auto Cell Sizing, and rogue detection.
According to RUCKUS One Online Help - Background Scanning and RF Management, and RUCKUS Analytics 3.5 User Guide - RF Monitoring, increasing the Background Scanning interval to 90 seconds delays updates for processes that depend on real-time RF sampling, specifically:
Rogue AP Detection (B): Takes longer to discover unauthorized or neighboring APs.
Auto-Channel Selection (C): Updates channel quality metrics less frequently, slowing responsiveness to interference changes.
Auto Power Adjustment (E): Depends on scanning results to optimize transmit power for coverage balance, so adjustments occur less frequently.
Processes such as client count and throughput measurement rely on active client data, not background scanning, and spectrum analysis operates in a dedicated analysis mode outside of normal scanning intervals.
Reference:
RUCKUS One Online Help - Background Scanning Interval and RF Optimization RUCKUS Analytics 3.5 User Guide - Auto Channel and Power Adjustment Logic RUCKUS AI Documentation - Background Scanning and Rogue Detection Behavior

NEW QUESTION # 29
Which factor primarily determines the maximum theoretical throughput of a Wi-Fi link?

- A. Signal-to-noise ratio (SNR)

- B. Channel width and MCS rate
- C. Beacon interval timing
- D. Transmit power level

Answer: B

Explanation:
Themaximum theoretical throughputof a Wi-Fi link is primarily defined by thechannel width(e.g., 20, 40, 80, or 160 MHz) and theModulation and Coding Scheme (MCS) rateselected by the device.
As stated in theRUCKUS One Online Help - PHY and Data Rate Concepts, throughput increases with wider channels and higher modulation (e.g., 1024-QAM in Wi-Fi 6). However, achieving these rates depends on sufficientSNR, which influences the MCS level that can be sustained.
RUCKUS Analytics collects PHY rate metrics to validate link efficiency and helps determine whether MCS downgrades are caused by environmental noise or interference.
Transmit power and beacon timing affect stability, not raw throughput.
References:
RUCKUS One Online Help - PHY Layer Data Rates and MCS Overview
RUCKUS Analytics 3.5 User Guide - PHY Rate Distribution and Efficiency
RUCKUS AI Documentation - Channel Width and Modulation Impacts on Throughput

NEW QUESTION # 30
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