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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

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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"> • 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"> • 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 <ul style="list-style-type: none"> • 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 4	<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 <ul style="list-style-type: none"> • 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 5	<ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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 6	<ul style="list-style-type: none"> • RUCKUS Wi-Fi Solution Management: This section of the exam measures skills of the Certified Logistics Associate and covers the necessary administrative and maintenance tasks for the overall solution. This includes managing system upgrade paths, defining and controlling administrator roles using directory services and Multi-Factor Authentication (MFA), monitoring network events and alarms, and performing critical functions like backup and restoration on the SmartZone controller. It also addresses generating reports, setting health thresholds, and identifying and locating rogue access points on a map.

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RUCKUS Certified Wi-Fi Associate Exam Sample Questions (Q50-Q55):

NEW QUESTION # 50

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

Answer: C

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 # 51

Load Balancing can be configured to balance clients across access points based on which two criteria? (Choose two.)

- A. Proximity
- **B. Client RSSI**
- **C. Client count**
- D. AP capacity
- E. Client device type

Answer: B,C

Explanation:

Client Load Balancing in RUCKUS WLANs is designed to optimize client distribution among nearby access points, preventing over-association to a single AP and improving overall airtime efficiency.

According to the RUCKUS One Online Help - Load Balancing and Band Steering and RUCKUS Analytics 3.5 User Guide - Client Distribution Analysis, SmartZone load balancing can be configured using two key parameters:

Client RSSI (B): The system evaluates the signal strength of a client device relative to multiple APs to ensure that it connects to the most suitable AP, not necessarily the strongest or first one detected.

Client Count (C): Balances client connections by redistributing associations when one AP exceeds a configured threshold compared to its neighbors.

AP capacity and device type are not direct load-balancing criteria, and proximity is implicitly derived from RSSI measurements rather than configured explicitly.

Therefore, the correct answers are B (Client RSSI) and C (Client count).

Reference:

RUCKUS One Online Help - Client Load Balancing Configuration

RUCKUS Analytics 3.5 User Guide - AP Load and Client Distribution Monitoring RUCKUS AI Documentation - Load Balancing and Client Steering Optimization

NEW QUESTION # 52

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

RUCKUS AI Documentation - SmartCast and Traffic Management Architecture

NEW QUESTION # 53

A network administrator has saved a backup file using the default file name "RUCKUS-Unleashed_db_082719_11_07.bak". Which three actions can be taken with this backup file? (Choose three.)

- **A. Restore all configuration.**
- B. Restore configuration of an ICX switch managed by Unleashed.
- **C. Restore all configuration except system name and IP address.**
- **D. Restore only WLAN settings.**
- E. Display the startup-config as cleartext.
- F. Restore SmartZone controller system settings.

Answer: A,C,D

Explanation:

An Unleashed backup file (e.g., RUCKUS-Unleashed_db_082719_11_07.bak) contains a comprehensive snapshot of the Unleashed network configuration, including SSIDs, WLAN policies, AP settings, and network parameters. According to the RUCKUS One Online Help - Backup and Restore section, administrators can use this file to:

Restore all configuration settings (A), re-establishing the network's operational state.

Restore only WLAN settings (B), providing flexibility when preserving SSID configurations while leaving system details unchanged.

Restore all configuration except the system name and IP address (E), allowing recovery to a new system without IP conflicts.

The backup file cannot display the configuration as cleartext, as it is encrypted for security. It also cannot restore SmartZone controller configurations or ICX switch settings directly-those require separate management mechanisms.

Thus, the valid operations are A, B, and E.

Reference:

RUCKUS One Online Help - Unleashed Backup and Restore Procedures

RUCKUS Analytics 3.5 User Guide - Configuration Snapshot and Restore Logs RUCKUS AI Documentation - Unleashed Configuration Management

NEW QUESTION # 54

Which 802.11 PHY layer feature allows Wi-Fi 6 (802.11ax) to efficiently serve multiple clients simultaneously on both uplink and downlink?

- A. RTS/CTS
- B. QAM256
- **C. OFDMA**
- D. MU-MIMO

Answer: C

Explanation:

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