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RCWA Exam Study Guide



RCWA

RUCKUS Certified Wi-Fi Associate Exam



Price: \$150 USD

[RUCKUS Certification Store](#)

Passing Score: 65%

Questions: 60

Exam Duration: 2 Hours

Study time: 20-60 hours

Language: English only

Validity Period

RCWA 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: 14 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 Nutshell 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

The RUCKUS Certified Wi-Fi Associate Exam (RCWA) certification is a valuable credential that every RUCKUS professional should earn it. The RCWA certification exam offers a great opportunity for beginners and experienced professionals to demonstrate their expertise. With the RUCKUS Certified Wi-Fi Associate Exam (RCWA) certification exam everyone can upgrade their skills and knowledge. There are other several benefits that the RUCKUS RCWA exam holders can achieve after the success of the RUCKUS Certified Wi-Fi Associate Exam (RCWA) certification exam.

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RUCKUS Certified Wi-Fi Associate Exam Sample Questions (Q52-Q57):

NEW QUESTION # 52

Which factor primarily determines the maximum theoretical throughput of a Wi-Fi link?

- A. Signal-to-noise ratio (SNR)
- B. Transmit power level
- C. Beacon interval timing
- **D. Channel width and MCS rate**

Answer: D

Explanation:

The maximum theoretical throughput of a Wi-Fi link is primarily defined by the channel width (e.g., 20, 40, 80, or 160 MHz) and the Modulation and Coding Scheme (MCS) rate selected by the device.

As stated in the RUCKUS 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 sufficient SNR, 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.

Reference:

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 # 53

Which RUCKUS feature in RUCKUS Analytics automatically identifies the root cause of service- impacting events using correlation analysis?

- A. Event Timeline Viewer
- **B. AI Anomaly Detection**
- C. SmartCast
- D. Health Summary Dashboard

Answer: B

Explanation:

AI Anomaly Detection in RUCKUS Analytics uses machine learning to detect, classify, and correlate service- impacting events such as authentication failures, RF interference, and backhaul latency.

According to RUCKUS Analytics 3.5 User Guide - AI-Driven Insights, this feature correlates telemetry across APs, clients, and switches to isolate root causes automatically. It identifies deviations from normal baselines and links related issues under unified incident reports.

RUCKUS One Online Help - Anomaly Detection and Correlation Engine confirms this system dramatically reduces troubleshooting time by surfacing the exact source of network degradation.

Other tools like Event Timeline Viewer and Health Dashboard visualize events but do not perform automatic RCA (Root Cause Analysis).

References:

RUCKUS Analytics 3.5 User Guide - AI-Driven Incident Correlation

RUCKUS One Online Help - Anomaly Detection and Intelligent Correlation

RUCKUS AI Documentation - Predictive Root Cause Analysis Engine

NEW QUESTION # 54

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

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

Answer: C,D

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 # 55

Using the trace tool in the SmartZone UI, which two pieces of information are needed to troubleshoot client connectivity? (Choose two.)

- A. Client MAC address
- B. AP model
- C. Client operating system
- D. Name of the device
- E. Correct APs to select

Answer: A,E

Explanation:

The SmartZone Trace Tool is used to capture and analyze packets related to specific client connectivity sessions, helping administrators identify association, authentication, and DHCP issues.

According to RUCKUS One Online Help - Troubleshooting Tools and Packet Capture and RUCKUS Analytics 3.5 User Guide - Client Connectivity Tracing, the following two pieces of information are required to initiate a trace:

* Client MAC Address (C): Identifies the exact device on the network to filter relevant packet captures and session details.

* Correct AP(s) to select (D): Specifies the access point(s) currently or recently serving that client, ensuring the trace targets the correct radio interface for capturing traffic.

Other details like device name, AP model, or client OS are useful for contextual understanding but not required inputs for running the trace. The trace tool uses these two core identifiers to isolate logs and generate capture data efficiently for troubleshooting connectivity issues.

References:

RUCKUS One Online Help - SmartZone Trace and Packet Capture Tools

RUCKUS Analytics 3.5 User Guide - Client Troubleshooting and Trace Analysis RUCKUS AI Documentation - Client Connectivity Diagnostics and Tracing Workflow

NEW QUESTION # 56

What is the recommended overlap percentage for adjacent AP coverage areas to ensure seamless client roaming in enterprise environments?

- A. 5-10%
- B. 15-20%
- C. 10-15%
- D. 20-25%

Answer: D

Explanation:

To maintain seamless client roaming in enterprise-grade Wi-Fi environments, RUCKUS recommends 20-25% signal overlap between adjacent AP coverage cells.

According to RUCKUS One Online Help - Roaming and Coverage Design Guidelines, this overlap ensures clients maintain an adequate RSSI and SNR threshold during roaming events without coverage gaps.

RUCKUS Analytics 3.5 User Guide - Client Mobility Analysis confirms that insufficient overlap often leads to disconnects or sticky-client behavior, while excessive overlap increases co-channel interference.

This guideline applies across 2.4 GHz and 5 GHz deployments, ensuring smooth transitions for 802.11r/k/v-enabled clients.

Reference:

RUCKUS One Online Help - Wi-Fi Roaming and AP Overlap Design Principles RUCKUS Analytics 3.5 User Guide - Client Roaming and RF Optimization RUCKUS AI Documentation - Roaming Performance and Cell Overlap Best Practices

NEW QUESTION # 57

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