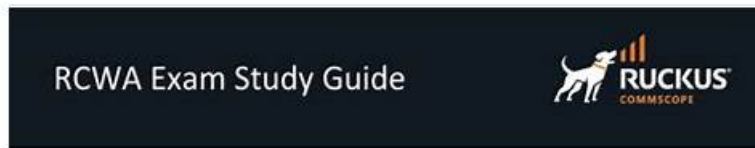


# Exam RCWA Topic | RCWA Valid Exam Pass4sure



## 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 (Q22-Q27):

### NEW QUESTION # 22

Which technology listens to clients on both horizontal and vertical planes to determine the best signal to use for each client?

- A. Tx Beamforming
- B. ChannelFly
- C. SmartCast
- **D. PD-MRC**

**Answer: D**

Explanation:

PD-MRC (Polarization Diversity - Maximal Ratio Combining) is a patented RUCKUS technology that enhances Wi-Fi signal reception by listening to client transmissions on both the horizontal and vertical polarization planes. This approach helps overcome signal degradation caused by multipath, reflections, and client device orientation.

According to the RUCKUS One Online Help and RUCKUS AI technical documentation, PD-MRC dynamically selects and combines the signal from both polarization domains to maximize the received signal-to-noise ratio (SNR). This technology works synergistically with BeamFlex, RUCKUS's adaptive antenna system, to provide optimal signal gain and link reliability per client. SmartCast is used for traffic prioritization and QoS management, ChannelFly handles dynamic channel selection using machine learning, and Tx Beamforming optimizes transmit signal direction. However, none of these specifically analyze both horizontal and vertical planes simultaneously.

Therefore, PD-MRC is the correct answer-it provides improved reception performance and overall RF robustness, especially for mobile clients in variable orientations.

Reference:

RUCKUS One Online Help - BeamFlex and PD-MRC Overview

RUCKUS Analytics 3.5 User Guide - RF Performance and Signal Quality Metrics RUCKUS AI Documentation - Advanced RF Technologies: BeamFlex, PD-MRC, and ChannelFly

### NEW QUESTION # 23

Review the exhibit.

Based on the AP mounting locations, which AP antenna types provide complete coverage to both the indoor and outdoor areas?

- A. The indoor space should use Semi-Directional, while the outdoor space should use a Yagi antenna.
- **B. The indoor space should use Omni-Directional, while the outdoor space should use a Patch antenna.**
- C. The indoor space should use Omni-Directional, while the outdoor space should use a Yagi antenna.
- D. The indoor space should use Semi-Directional, while the outdoor space should use a Patch antenna.

**Answer: B**

Explanation:

In this layout, the indoor APs are centrally mounted to provide even signal distribution in all directions, while outdoor APs are wall-mounted facing the exterior coverage zone.

According to RUCKUS One Online Help - Antenna Selection and Deployment and RUCKUS AI Documentation - RF Design Guidelines, the best configuration for complete coverage is:

Indoor space: Use Omni-Directional antennas, which radiate uniformly in 360° for even indoor coverage and minimal dead zones.

Outdoor space: Use Patch antennas, which are semi-directional with a 60°-90° beamwidth ideal for covering patios, courtyards, or building perimeters without wasting signal behind the AP.

Yagi antennas are highly directional and suited for long-distance point-to-point links, not area coverage. Semi-directional indoor antennas are unnecessary unless indoor partitioning or wall density requires focused energy.

This combination-Omni indoors and Patch outdoors-provides optimal performance for mixed indoor-outdoor designs and aligns with RUCKUS high-density deployment best practices.

Reference:

RUCKUS One Online Help - Antenna Orientation and Coverage Recommendations RUCKUS Analytics 3.5 User Guide - RF

Propagation and Signal Distribution Analysis RUCKUS AI Documentation - Mixed Environment RF and Antenna Design

### NEW QUESTION # 24

Which three factors impact indoor WLAN coverage areas? (Choose three.)

- A. Spatial multiplexing
- B. Earth bulge
- C. AP orientation
- D. AP Tx power
- E. Antenna pattern
- F. Antenna diversity

**Answer: C,D,E**

Explanation:

Indoor WLAN coverage is influenced by multiple RF and physical parameters that determine how effectively a signal propagates and maintains connectivity quality.

According to RUCKUS One Online Help - RF Design Fundamentals and RUCKUS AI Documentation - Coverage Optimization, the three most impactful factors are:

AP Transmit Power (A): Directly affects signal reach; excessive power can cause co-channel interference, while low power results in coverage holes.

AP Orientation (C): Affects signal radiation direction-wall-mounted, ceiling-mounted, or tilted deployments impact pattern uniformity and coverage overlap.

Antenna Pattern (D): Defines gain and directional behavior; omnidirectional antennas provide uniform coverage, while directional models concentrate energy for targeted areas.

Antenna diversity and spatial multiplexing improve throughput and reliability, but do not primarily determine raw coverage boundaries. "Earth bulge" is irrelevant for indoor deployments.

Reference:

RUCKUS One Online Help - Indoor RF Design and Coverage Planning

RUCKUS Analytics 3.5 User Guide - RF Performance and Propagation Reports RUCKUS AI Documentation - Antenna Pattern and Coverage Optimization

#### NEW QUESTION # 25

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

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

**Answer: B**

Explanation:

OFDMA (Orthogonal Frequency Division Multiple Access) is one of the core features introduced in IEEE 802.11ax (Wi-Fi 6). It divides a channel into smaller subcarriers called Resource Units (RUs), allowing an AP to communicate with multiple clients simultaneously, both on uplink and downlink.

According to the RUCKUS One Online Help - Wi-Fi 6 Features Overview, OFDMA improves spectrum efficiency, reduces latency, and increases throughput in high-density environments. RUCKUS APs such as the R750 and R850 use OFDMA in coordination with RUCKUS AI's client traffic analysis to allocate resources dynamically.

In contrast, MU-MIMO also supports multi-user communication but only in one direction (downlink for 802.11ac Wave 2, both for 11ax). QAM256 enhances modulation efficiency but doesn't enable concurrent multi-client service.

References:

RUCKUS One Online Help - Wi-Fi 6 and OFDMA Operations

RUCKUS Analytics 3.5 User Guide - PHY Layer Metrics and Multi-user Efficiency RUCKUS AI Documentation - Resource Unit Allocation and Client Scheduling

#### NEW QUESTION # 26

Using the rule of 10s and 3s, how many mW does 23 dBm convert to?

- A. 225 mW
- B. 150 mW
- C. 200 mW
- D. 250 mW

**Answer: C**

Explanation:

The Rule of 10s and 3s is a quick mental calculation used to convert between dBm (decibel-milliwatts) and milliwatts (mW), which represent power levels. The rule states that:

- \* Every 10 dB increase corresponds to a 10× increase in power.
- \* Every 3 dB increase corresponds to approximately a 2× increase in power.

Starting from 0 dBm = 1 mW:

- \* +10 dBm = 10 mW
- \* +20 dBm = 100 mW
- \* Add 3 dB # 23 dBm = 100 mW × 2 # 200 mW

Thus, 23 dBm converts to approximately 200 mW. This principle is used throughout RUCKUS documentation for understanding EIRP (Effective Isotropic Radiated Power) and ensuring compliance with regulatory transmit power limits.

According to RUCKUS One Online Help and RUCKUS AI user documentation, administrators often use this conversion when optimizing transmit power settings to balance coverage and interference. The rule helps design engineers translate dB settings into physical power outputs during Wi-Fi tuning and planning.

References:

RUCKUS One Online Help - Radio Settings and Transmit Power Configuration  
RUCKUS Analytics 3.5 User Guide - RF Metrics and Power Analysis  
RUCKUS AI Documentation - Understanding RF Signal Levels (docs.cloud.ruckuswireless.com/RUCKUS-AI/userguide/index.html)

## NEW QUESTION # 27

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