

Updated CWNP - CWISA-103 - Certified Wireless IoT Solutions Administrator(2025 Edition) Valid Exam Sample

CWISA Certified Wireless IoT Solutions Administrator Study and Reference Guide



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CWNP CWISA-103 Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> • Wireless Technologies: This section of the exam measures the skills of Wireless Architects and covers foundational knowledge of wireless IoT technologies and their applications. It includes maintaining awareness of emerging technologies through research, understanding common applications and their associated frequencies and protocols, and familiarity with key standards organizations like IEEE, IETF, and Wi-Fi Alliance. The domain also encompasses defining various wireless network types including WLAN, WPAN, and IoT implementations across industries, along with understanding the hardware and software components of IoT devices and gateways, covering processors, memory, radios, sensors, and operating systems.
Topic 2	<ul style="list-style-type: none"> • Radio Frequency Communications: This section of the exam measures the skills of RF Engineers and focuses on the fundamental principles of radio frequency communications. It involves explaining RF wave characteristics such as frequency, wavelength, and amplitude, and understanding behaviors like amplification, attenuation, and free space path loss. The domain covers describing modulation techniques including ASK, FSK, PSK, and QAM, and explaining the capabilities of RF components like radios, antennas, and cabling. It also includes describing the use and capabilities of different RF bands in terms of communication ranges and power levels.
Topic 3	<ul style="list-style-type: none"> • Supporting Wireless Solutions: This section of the exam measures the skills of Wireless Support Engineers and focuses on the ongoing administration and support of wireless solutions across various vertical markets. It involves administering solutions in healthcare, industrial, smart cities, retail, and other environments while troubleshooting common problems including interference, configuration issues, and hardware malfunctions. The domain includes determining the best use of scripting and programming solutions for IoT implementations, understanding data structures and APIs, and comprehending networking and security protocols. It also covers understanding application architectures and their impact on wireless solutions, including single-tier and multi-tier architectures, database systems, and application servers.
Topic 4	<ul style="list-style-type: none"> • Implementing Wireless Solutions: This section of the exam measures the skills of Wireless Implementation Specialists and covers the practical implementation of wireless IoT solutions. It involves understanding key issues related to automation, integration, monitoring, and management, and using best practices in implementation, including pilot testing, configuration, installation, and documentation. The domain includes validating implementations through testing and troubleshooting, performing installation procedures including equipment mounting and connectivity configuration, and implementing security solutions covering authentication, authorization, and encryption. It also encompasses knowledge transfer practice, including staff training and solution documentation.
Topic 5	<ul style="list-style-type: none"> • Planning Wireless Solutions: This section of the exam measures the skills of IoT Solutions Architects and encompasses the planning phase of wireless IoT solutions. It involves identifying system requirements, including use cases, capacity needs, security requirements, and integration needs, while considering constraints such as budgetary, technical, and regulatory limitations. The domain includes selecting appropriate wireless solutions based on requirements, planning for technical needs, including LAN • WAN networking and frequency coordination, and understanding the capabilities of common wireless IoT solutions like Bluetooth, Zigbee, and LoRaWAN, along with location services and methods.

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CWNP Certified Wireless IoT Solutions Administrator(2025 Edition) Sample Questions (Q10-Q15):

NEW QUESTION # 10

You are creating documentation for a new wireless solution that is deployed in the organization. Why is it important to document APIs in use within the system?

- A. If APIs are in use, it typically indicates that the vendor has not provided ideal support. Without documentation, you cannot prove this reality for a discount.
- **B. If APIs are in use, it typically indicates the use of custom scripts or application code. Future support will be easier when the APIs in use are documented.**
- C. The APIs in use will not function without this documentation. The documentation is linked to the executable process of the APIs.
- D. It allows future support to implement APIs that have not been used at the time of deployment.

Answer: B

Explanation:

* Customization and Integrations: The presence of APIs often suggests a system is integrated with other platforms or has custom-built elements.

* Understanding Dependencies: Documenting used APIs helps clarify how different parts of the system interact and where potential issues might arise.

* Troubleshooting Efficiency: Detailed API documentation aids in resolving problems, allowing staff to assess interconnected systems effectively.

* Knowledge transfer: Future support teams won't have to reverse-engineer the system; documentation ensures smooth handover and understanding.

References:

Best practices API documentation: Guides on API documentation formats and the level of detail needed for maintenance. [Example: Swagger, OpenAPI Specification] (<https://swagger.io/>) Software Development Life Cycle (SDLC): Materials emphasizing the importance of documentation during development and support phases.

NEW QUESTION # 11

You are deploying a ZigBee network based on the frequency band available for ZigBee deployment worldwide. What allowable action will do the most to minimize ZigBee and 802.11 interference?

- A. Use the 6 GHz band for all ZigBee communications
- B. Use the 2.4 GHz band for all 802.11 communications
- **C. Use the 5 GHz band for all 802.11 communications**
- D. Use the 5 GHz band for all ZigBee communications

Answer: C

Explanation:

* Wi-Fi and Zigbee Interference: Both can operate in the 2.4 GHz band, leading to potential interference that degrades performance for both networks.

* 5 GHz Advantages:

* Less crowded: Fewer devices operate in the 5 GHz band, reducing interference potential.

* Wider Channels: 5 GHz supports wider channels, enabling higher data throughput for Wi-Fi.

NEW QUESTION # 12

Which one of the following location tracking technologies is most energy efficient in typical implementations?

- A. Wi-Fi
- B. Cellular
- C. GPS
- **D. BLE Beacons**

Answer: D

Explanation:

* BLE Beacon Power Efficiency: Bluetooth Low Energy (BLE) beacons are designed for low power consumption. Their primary function is to periodically broadcast short data packets (advertising their presence).

* Other Technologies:

- * Cellular: More power-hungry due to long-range communication and complex protocols.
- * GPS: Power intensive, especially when actively tracking location.
- * Wi-Fi:

NEW QUESTION # 13

Within what development environment is XAML most commonly used?

- A. .NET
- B. PHP
- C. R
- D. Python

Answer: A

Explanation:

XAML and .NET: XAML (eXtensible Application Markup Language) is primarily used within the .NET framework for defining user interfaces.

NEW QUESTION # 14

You are planning a wireless solution. Why should you consider an ongoing monitoring system for use after the solution is deployed?

- A. To ensure that the system continues to meet the original requirements, even if users later indicate poor performance
- B. Monitoring the solution provides additional billable hours
- C. Implementation validation is never completed, it continues throughout the life of the system
- D. The number of users and the use of the solution will change over time and monitoring allows for detection of these changes

Answer: D

Explanation:

- * Ongoing Monitoring for Adaptability: Wireless networks are dynamic environments. Ongoing monitoring is essential because:
- * Changing Usage Patterns: User numbers and how they utilize the network evolve over time.
- * Capacity Adjustments: Monitoring reveals if the network needs scaling for more devices or changing use cases.
- * Security: Helps detect unauthorized access or anomalies.

References

- * Importance of Wireless Network Monitoring: Resources will detail its role in proactive management

NEW QUESTION # 15

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