

2026 CWNP CWISA-103: The Best Exam Certified Wireless IoT Solutions Administrator(2025 Edition) Collection Pdf

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"> • 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 3	<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 4	<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.
Topic 5	<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.

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CWNP Certified Wireless IoT Solutions Administrator(2025 Edition) Sample Questions (Q79-Q84):

NEW QUESTION # 79

What is a common characteristic of Industrial IoT (IIoT) devices that is not a characteristic of all IoT devices?

- A. Transmission of small amounts of data throughout the day
- B. Use of proprietary protocols
- C. Use of standardized protocols
- **D. Ruggedized devices constructed for operating in harsh environments**

Answer: D

Explanation:

IIoT Environments: Industrial IoT (IIoT) often involves deployment in harsh environments (factories, plants, outdoor sites) with:

Extreme temperatures

Dust & Vibrations

Exposure to chemicals or moisture

Ruggedization: IIoT devices are designed to withstand these conditions, ensuring reliability and longevity.

NEW QUESTION # 80

What is the role of the ITU in wireless communications?

- **A. Coordinates the shared global use of the radio spectrum**
- B. Defines international communications standards
- C. Establishes wireless radiation exposure limits
- D. Oversees communications regulatory agencies in each country

Answer: A

Explanation:

* ITU's Mandate: The International Telecommunication Union (ITU) is a specialized agency of the United Nations focused on global information and communication technologies (ICTs).

* Radio Spectrum Regulation: A core ITU function is allocating radio spectrum bands and satellite orbits to prevent harmful interference between different countries and technologies. This coordination is essential for the orderly use of wireless communications worldwide.

* Other ITU Roles: While involved in standard-setting and establishing best practices, options A and D are less precise than the ITU's spectrum coordination focus.

References:

ITU Website: (<https://www.itu.int/en/>) Outlines its activities and governance of radio spectrum.

ITU Radio Regulations: The international treaty governing the use of the radio-frequency spectrum.

NEW QUESTION # 81

What consideration is found in PtMP systems that is not found in PtP systems?

- A. SINR optimization
- **B. Airtime management**
- C. Frequency selection
- D. Interference avoidance

Answer: B

Explanation:

PtMP (Point-to-Multipoint): A single access point (AP) communicates with multiple client devices.

This means the AP needs to manage how the available airtime is shared among those clients.

Airtime Fairness: Mechanisms are needed to ensure that:

Each client gets a fair chance to communicate

High-priority traffic isn't starved by low-priority traffic PtP (Point-to-Point): A dedicated link only has two devices, eliminating the need for complex airtime management.

Considerations in Both: While interference, SINR, and frequency selection are important in both PtMP and PtP systems, the need for airtime management is unique to the multipoint scenario.

NEW QUESTION # 82

You are troubleshooting a problem with a wireless solution that uses MQTT where the IoT end devices are not reporting to the MQTT server/broker. At what Layer of the OSI Model should troubleshooting begin when using a bottom-up method?

- A. Layer 1
- B. Layer 5
- C. Layer 6
- D. Layer 4

Answer: A

Explanation:

Bottom-Up Troubleshooting: The OSI model provides a structured diagnostic approach. Starting at Layer 1 ensures basic physical connectivity issues are ruled out first.

MQTT Relies on IP: MQTT operates at a higher layer of the OSI model, relying on TCP/IP (Layers 4 and 3) for communication.

Problems at the physical layer will disrupt everything built upon it. Checking the Fundamentals: Before investigating complex application issues (MQTT), verify cables, link lights, Wi-Fi signal strength, etc.

NEW QUESTION # 83

What primary component is required to implement a wireless transceiver in a device?

- A. Flash memory
- B. Radio
- C. SRAM
- D. GPIO pins

Answer: B

Explanation:

Wireless Transceiver: A transceiver is a combination of a transmitter and receiver used for wireless communication.

Radio: The radio is the primary component responsible for:

Modulation: Encoding data onto a carrier wave.

Demodulation: Extracting data from a received signal.

Transmission/Reception: Handling the actual sending and receiving of modulated signals over the air.

NEW QUESTION # 84

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