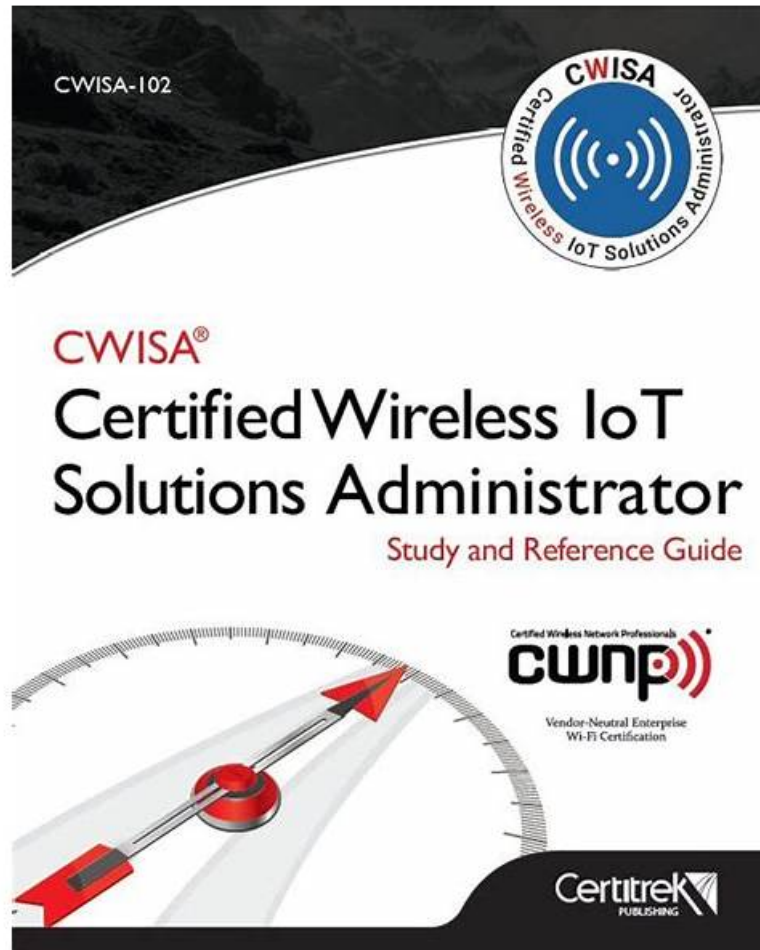


CWNP - CWISA-103 - Certified Wireless IoT Solutions Administrator(2025 Edition)–High Pass-Rate Reliable Exam Cram



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CWNP CWISA-103 Exam Syllabus Topics:

Topic	Details
Topic 1	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 2	• 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 3	• 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 4	• 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 5	• 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.

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CWNP Certified Wireless IoT Solutions Administrator(2025 Edition) Sample Questions (Q17-Q22):

NEW QUESTION # 17

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

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

Answer: A

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.

References

- * Transceiver: <https://en.wikipedia.org/wiki/Transceiver>

NEW QUESTION # 18

You are implementing a smart office wireless solution for a small business. The business owner indicates that It is acceptable to use consumer-targeted wireless devices. What is a common negative attribute of consumer- targeted smart home or smart office devices?

- A. They often operate only in the 2.4 GHz frequency band used by 802.11 devices
- B. They rarely support features required for small business deployment
- C. They typically only support FHSS modulation schemes
- D. They usually stop working after twelve months

Answer: A

Explanation:

- * Consumer Smart Devices Limitation: Many consumer-oriented smart devices are designed for simplicity and cost-effectiveness, leading to reliance on the crowded 2.4 GHz band.
- * Consequences:
- * High Interference: Increased potential for interference from Wi-Fi and other 2.4 GHz devices.
- * Limited scalability: Performance and reliability may degrade in busy wireless environments.

NEW QUESTION # 19

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 5 GHz band for all 802.11 communications
- C. Use the 5 GHz band for all ZigBee communications
- D. Use the 2.4 GHz band for all 802.11 communications

Answer: B

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 # 20

How is ASK modulation different from FSK modulation?

- A. ASK varies the amplitude of the signal while FSK shifts its frequency
- B. FSK is more sensitive to noise than ASK
- C. ASK can carry more data than FSK
- D. ASK does not work at high frequencies

Answer: A

Explanation:

* Key Modulation Differences:

* ASK (Amplitude Shift Keying): Digital data is represented by changes in the amplitude (strength) of a carrier wave.

* FSK (Frequency Shift Keying): Digital data is represented by changes in the frequency of a carrier wave.

References

* ASK: https://en.wikipedia.org/wiki/Amplitude-shift_keying

* FSK: https://en.wikipedia.org/wiki/Frequency-shift_keying

NEW QUESTION # 21

Which one of the following items has driven large serving 5- to 18-year-old students?

- **A. Cloud-based applications**
- B. Wearable body sensors
- C. Streaming music
- D. Online torrent sites

Answer: A

Explanation:

* Cloud-based applications drive bandwidth usage: Applications like Google Suite, Microsoft 365, and video conferencing (Zoom, Teams) are commonly used in educational settings. These rely on cloud servers, requiring significant downloads and uploads.

* Shift towards online learning: More schools are utilizing online learning platforms and resources, further increasing their dependence on cloud-based solutions.

* Streaming, torrents, wearables less impactful: Streaming music and torrent sites can contribute, but their impact is generally less significant. Wearables in education are still niche despite their potential.

References

* Trends in education technology: Reports on the rise of cloud-based learning platforms in schools.

* [Example: Project Tomorrow Speak Up Research Project on Digital Learning] (<https://tomorrow.org/speakup/>)

* Network usage studies in schools: Research on bandwidth usage patterns can confirm the primary drivers of traffic in educational settings.

NEW QUESTION # 22

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