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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,n 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,s including staff training and solution documentation.
Topic 2	• 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 3	• 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	• 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	• 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.

>> CWISA-103 Reliable Dumps Sheet <<

Free PDF 2025 CWISA-103: Useful Certified Wireless IoT Solutions Administrator(2025 Edition) Reliable Dumps Sheet

Practicing for an Certified Wireless IoT Solutions Administrator(2025 Edition) (CWISA-103) exam is one of the best ways to ensure success. It helps students become familiar with the format of the actual CWISA-103 practice test. It also helps to identify areas where more focus and attention are needed. Furthermore, it can help reduce the anxiety and stress associated with taking an Certified Wireless IoT Solutions Administrator(2025 Edition) (CWISA-103) exam as it allows students to gain confidence in their knowledge and skills.

CWNP Certified Wireless IoT Solutions Administrator(2025 Edition) Sample

Questions (Q27-Q32):

NEW QUESTION # 27
What is the most important consideration when deciding whether to implement a wired or wireless solution?

- A. The applications being used
- B. The distance between nodes
- C. Business and system requirements
- D. The availability of PoE

Answer: C

Explanation:
* Requirements Drive Decisions: The decision between wired or wireless must align with the solution's overall purpose, performance targets, and operational constraints.
* Key Considerations:
* Reliability: Does the application require guaranteed connectivity? (Wired may be favored).
* Installation Cost: Can extensive cabling be done, or is it prohibitively expensive? (Wireless may be favored).
* Flexibility and Scalability: Is node placement likely to change in the future? (Wireless may be favored).
* Other Factors are Important, But Secondary: Distance, PoE availability, specific applications all matter, but they are assessed within the context of the overarching business needs.
References:
Wireless vs. Wired Network Design: Comparisons of pros and cons, highlighting how use cases guide the choice.
IoT Solution Planning: Materials on defining requirements before selecting technology.

NEW QUESTION # 28
What primary component is required to implement a wireless transceiver in a device?

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

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.
References
* Transceiver: https://en.wikipedia.org/wiki/Transceiver

NEW QUESTION # 29
You are defining capacity for a wireless solution. What is the most important factor related to each use case defined in relation to capacity?

- A. Total airtime utilization
- B. Protocols used on each device
- C. Number of devices
- D. Support for mobility

Answer: C

Explanation:
* Capacity Planning: The number of devices a wireless network can support is the primary determinant of its required capacity. This is because:
* Traffic Load: Each device generates network traffic that contributes to the overall load.

* Resource Sharing: Devices compete for airtime and bandwidth resources.
* Device Type: Requirements vary; a simple sensor has different needs than a video camera.

NEW QUESTION # 30

Within what development environment is XAML most commonly used?

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

Answer: A

Explanation:
* XAML and .NET: XAML (eXtensible Application Markup Language) is primarily used within the .
NET framework for defining user interfaces. Specifically, technologies like:
* WPF (Windows Presentation Foundation): Desktop application UIs
* Xamarin: Mobile app UIs
* XAML in Other Frameworks: While some limited adaptation exists, its core use is tightly coupled with .NET technologies.
References:
XAML Overview (Microsoft Docs): Introductions to XAML emphasizing its use in .NET applications.
WPF Documentation: Tutorials and references specifically mentioning XAML's role in Windows desktop development.

NEW QUESTION # 31

How is ASK modulation different from FSK modulation?

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

Answer: C

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 # 32

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