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CWNP CWISA-103 Exam Syllabus Topics:

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

CWNP Certified Wireless IoT Solutions Administrator(2025 Edition) Sample Questions (Q61-Q66):

NEW QUESTION # 61
What is defined as the weakening of signal amplitude as the signal passes through a medium?

- A. Diffraction

- B. Attenuation
- C. Scattering
- D. Reflection

Answer: B

Explanation:
* Attenuation: Describes the progressive loss of signal strength as it travels through a medium (like air, cables, walls). It's caused by factors like absorption, distance, and obstacles.
* Other Phenomena:
* Diffraction: Bending of waves around obstacles.
* Reflection: Waves bouncing off surfaces.
* **Scattering: ** Waves dispersing in multiple directions.
References
* Attenuation: https://en.wikipedia.org/wiki/Attenuation

NEW QUESTION # 62
In a wireless link, as the signal strength decreases, what else may decrease?

- A. Interference
- B. Noise
- C. Latency
- D. Transmission speeds

Answer: D

Explanation:
* Signal Strength and Data Rate: In wireless links, weaker signal strength often directly correlates to reduced transmission speeds. Modern wireless technologies use adaptive modulation and coding, sacrificing speed for reliability when signals become weaker.
* Noise and Interference: While these can impact performance, they don't inherently decrease simply because signal strength drops.
* Latency: Latency can be affected by poor signal, but its primary drivers are distance and network congestion.
References:
Wireless Signal Strength vs. Speed: Articles explaining the relationship and how adaptive modulation works.
Modulation and Coding Schemes (MCS): Technical descriptions of how Wi-Fi and other wireless technologies adjust speeds based on signal quality.

NEW QUESTION # 63
What best describes a proof-of-concept implementation?

- A. Testing for software bugs that might impact the end user
- B. A limited-scope prototype deployment in the target environment to test and demonstrate capabilities in the real world
- C. A full-scale test deployment in the target environment for users to work with
- D. A demonstration provided by the manufacturer in their facility that shows the capabilities of the system

Answer: B

Explanation:
* Purpose of POC: A proof-of-concept (POC) validates the feasibility and potential value of a solution within its intended operational environment.
* Scaling: POCs are small-scale, allowing for quicker and less costly testing before committing to a full- scale deployment.
* Real-world Evaluation: Unlike manufacturer demos, a POC exposes the system to the unique variables (e.g., interference, usage patterns) present in the user's specific setting.
References:
IT project management: Materials discussing the role of proof-of-concept phases and their goals.

NEW QUESTION # 64
What is a common characteristic of Industrial IoT (IIoT) devices that is not a characteristic of all IoT devices?

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

Answer: A

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.
References
* IIoT: https://en.wikipedia.org/wiki/Industrial_Internet_of_things
* Rugged Devices: Articles on ruggedized electronics will emphasize their importance in industrial settings.

NEW QUESTION # 65
What is the spacing between ZigBee channels when operating in the 2.4 GHz frequency band?

- A. 2 MHz
- B. 1 MHz
- C. 5 MHz
- D. 25 MHz

Answer: C

Explanation:
* ZigBee Channel Spacing: ZigBee channels in the 2.4 GHz band are spaced 5 MHz apart. This helps manage interference in the crowded 2.4 GHz spectrum.

NEW QUESTION # 66
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