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CWNP CWISA-103 Exam

Certified Wireless IoT Solutions Administrator

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CWNP CWISA-103 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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"> 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 5	<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.

CWNP Certified Wireless IoT Solutions Administrator(2025 Edition) Sample Questions (Q21-Q26):

NEW QUESTION # 21

What part(s) of the OSI network model does the IETF primarily focus on for the development of standards?

- A. Data Link Layer
- B. All layers
- C. Physical Layer and above
- **D. Network Layer and above**

Answer: D

Explanation:

IETF's Focus: The Internet Engineering Task Force (IETF) primarily develops and standardizes internet protocols operating at the Network Layer (Layer 3) and above in the OSI model.

Key Protocols: Some prominent IETF-developed protocols include:

IP (Internet Protocol): Foundation of internet addressing and routing.

TCP (Transmission Control Protocol): Reliable, connection-oriented data transport.

UDP (User Datagram Protocol): Connectionless, best-effort data transport.

DNS (Domain Name System): Translates domain names into IP addresses.

HTTP (Hypertext Transfer Protocol): Web communication.

NEW QUESTION # 22

What is an advantage of using HTTP-based processing?

- A. It is more secure than any other APIs
- B. It is faster than any other APIs
- **C. It is simple and commonly understood in the developer community**
- D. It is more secure than other transports, when using SSH

Answer: C

Explanation:

* HTTP's Popularity: HTTP is the foundation of the web, making it widely known and supported.

Developers have extensive familiarity with its concepts (methods, headers, status codes, etc.).

* REST APIs and Webhooks: These often leverage HTTP for communication, building upon existing knowledge and tools.

* Tradeoffs:

* Security: HTTP itself is not inherently secure; HTTPS or additional layers address this.

* Speed: Protocols optimized for IoT may have lower overhead, but HTTP's simplicity often outweighs minor performance differences.

References:

REST APIs: Overviews of their use of HTTP, demonstrating its prevalence in API development.

Developer Experience with HTTP: Discussions on the familiarity with and availability of HTTP libraries in various programming languages

NEW QUESTION # 23

You are considering the implementation of a lab for testing wireless equipment. What is the primary benefit of such a lab? (Choose the single best answer.)

- A. Provides for testing to determine how much RF exposure you can tolerate
- **B. Provides a safe environment in which to develop practical skills and knowledge of a technology and to test the technology**
- C. Provides a failover environment for your production systems
- D. Provides a way to repurpose old hardware that is not ready for final removal

Answer: B

Explanation:

Lab Purpose: Wireless testing labs offer controlled settings to:

Skill Development: Hone practical understanding of wireless technologies without impacting production environments.

Experimentation: Safely test different configurations, compatibility, and potential issues.

Troubleshooting: Isolate problems, test solutions, and understand how equipment behaves in various scenarios.

NEW QUESTION # 24

What provides the security (encryption) in an HTTPS connection?

- A. IPSec
- **B. SSL/TLS**
- C. SNMPv3
- D. SSH

Answer: B

Explanation:

* SSL/TLS Secures Web Traffic: HTTPS builds upon HTTP, adding the encryption provided by Secure Sockets Layer (SSL) or its successor, Transport Layer Security (TLS).

* Other Protocols Have Different Purposes:

* IPSec: Secures IP traffic at a network level, can be used alongside TLS.

* SNMPv3: Management protocol, offers security features, but not the primary mechanism in HTTPS.

* SSH: Secure remote shell, unrelated to web data encryption.

References:

TLS (and SSL): Explanations of their role in HTTPS and how they provide encryption for web communication.

HTTPS Overview: Materials showing how TLS fits into the overall HTTPS architecture.

NEW QUESTION # 25

Why is it important to adhere to safety and building codes when installing equipment?

- **A. It protects the life and health of installers and end users during installation and after the system is deployed**
- B. It prevents equipment from falling to the floor and being damaged because of the impact
- C. It is an insurance requirement designed to reduce insurance rates and reduce incident reports against insurance policies
- D. They can be ignored as they are regulations designed for other industries

Answer: A

Explanation:

* Primary Concern: Safety: Building codes and safety regulations are there to prevent injury and accidents. This includes potential harm from improper equipment installation (falling objects, electrical hazards, etc.).

* Legal and Ethical Responsibility: Organizations have an obligation to provide a safe workplace for employees and protect the well-being of end-users.

* Insurance Considerations: While complying with codes may impact insurance rates, this shouldn't be the primary motivation, as safety itself is paramount.

References:

Occupational Safety and Health (e.g., OSHA in the US): Websites of regulatory bodies outlining guidelines for safe equipment installation in various settings.

Electrical Codes (e.g., National Electrical Code): Standards that address safe practices to prevent fire and shock hazards.

NEW QUESTION # 26

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