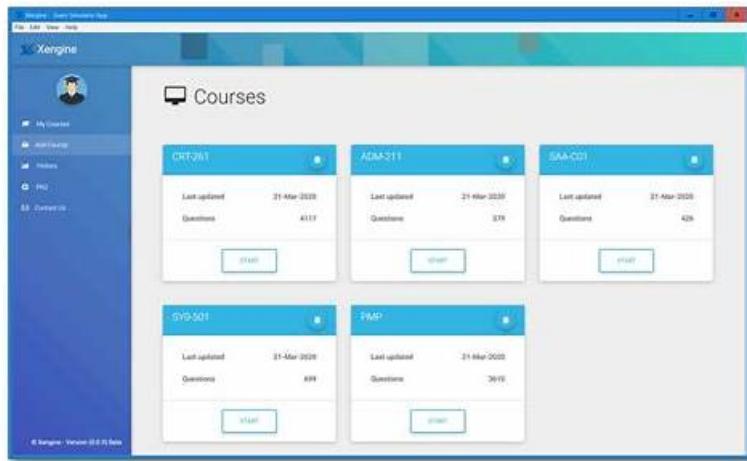


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CWNP CWISA-103 Exam Syllabus Topics:

Topic	Details

Topic 1	<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 2	<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 3	<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 4	<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 practices including staff training and solution documentation.
Topic 5	<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.

CWNP Certified Wireless IoT Solutions Administrator(2025 Edition) Sample Questions (Q24-Q29):

NEW QUESTION # 24

What best describes a proof-of-concept implementation?

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

Answer: C

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 # 25

You are planning a wireless implementation. At what point should you begin to consider security requirements for the implementation?

- A. In the planning phase
- B. In the implementation phase
- C. In the acceptance testing phase
- D. During hand-off to support

Answer: A

Explanation:

* Security by Design: Security should be a fundamental consideration from the initial planning stages of any wireless implementation.

This ensures:

* Risk Assessment: Identifying potential vulnerabilities early on.

* Security Controls: Choosing appropriate encryption, authentication, and access control mechanisms.

* Integration: Security measures are seamlessly woven into the system's architecture, not retrofitted later, which can be less effective.

NEW QUESTION # 26

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

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

Answer: A

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).

NEW QUESTION # 27

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 standardized protocols
- C. Use of proprietary 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 # 28

Which protocol is MOST commonly used for lightweight, publish/subscribe communication in IoT systems?

- A. AMQP
- B. MQTT
- C. HTTP
- D. CoAP

Answer: B

Explanation:

MQTT is designed for constrained devices, low overhead, and unreliable networks using a publish/subscribe model. Other protocols are too heavy or designed for different communication styles.

NEW QUESTION # 29

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