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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q212-Q217):

NEW QUESTION # 212

Which of the following is the BEST reason for periodic audits?

Available Choices (select all choices that are correct)

- A. To validate that security policies and procedures are performing
- B. To adhere to a published or approved schedule
- C. To meet regulations
- D. To confirm audit procedures

Answer: A

Explanation:

Periodic audits are an essential part of the ISA/IEC 62443 cybersecurity standards, as they help to verify the effectiveness and

compliance of the security program. According to the ISA/IEC 62443-2-1 standard, periodic audits should be conducted to evaluate the following aspects¹:

The security policies and procedures are consistent with the security requirements and objectives of the organization The security policies and procedures are implemented and enforced in accordance with the security program The security policies and procedures are reviewed and updated regularly to reflect changes in the threat landscape, the IACS environment, and the business needs The security performance indicators and metrics are measured and reported to the relevant stakeholders The security incidents and vulnerabilities are identified, analyzed, and resolved in a timely manner The security awareness and training programs are effective and aligned with the security roles and responsibilities of the personnel The security audits and assessments are conducted by qualified and independent auditors The security audit and assessment results are documented and communicated to the appropriate parties The security audit and assessment findings and recommendations are addressed and implemented in a prioritized and systematic way Periodic audits are not only a means to meet regulations or adhere to a schedule, but also a way to validate that the security policies and procedures are performing as intended and achieving the desired security outcomes. Periodic audits also help to identify gaps and weaknesses in the security program and provide opportunities for improvement and enhancement. References: Periodic audits are an essential part of the ISA/IEC 62443 cybersecurity standards, as they help to verify the effectiveness and compliance of the security program. According to the ISA/IEC 62443-2-1 standard, periodic audits should be conducted to evaluate the following aspects¹:

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NEW QUESTION # 213

Which is the implementation of PROFIBUS over Ethernet for non-safety-related communications?

Available Choices (select all choices that are correct)

- A. PROFIBUS DP
- B. PROFIBUS PA
- C. PROFISAFE
- D. PROFINET

Answer: D

Explanation:

PROFINET is the implementation of PROFIBUS over Ethernet for non-safety-related communications. It is a standard for industrial Ethernet that enables real-time data exchange between automation devices, controllers, and higher-level systems. PROFINET uses standard Ethernet hardware and software, but adds a thin software layer that allows deterministic and fast communication. PROFINET supports different communication profiles for different applications, such as motion control, process automation, and functional safety. PROFINET is compatible with PROFIBUS, and allows seamless integration of existing PROFIBUS devices and networks¹²³ References: 1: What is PROFINET? - PI North America 2: PROFINET - Wikipedia 3: PROFINET Technology and Application - System Description

NEW QUESTION # 214

Which is a physical layer standard for serial communications between two or more devices?

Available Choices (select all choices that are correct)

- A. RS432
- B. RS235
- C. RS232
- D. RS435

Answer: C

Explanation:

RS232 is a physical layer standard for serial communication between two or more devices. It defines the electrical characteristics, timing, and pinout of connectors for serial data transmission. RS232 is widely used in industrial communication devices, such as PLCs, measuring instruments, and network servers. RS232 allows only one master and one slave to communicate on each line, and operates in a full duplex mode. RS232 has lower transmission speed, shorter maximum cable length, and larger voltage swing than later standards such as RS422 and RS485. 1: Basics of RS232, RS422, and RS485 Serial Communication 2: RS-232 - Wikipedia 3: RS232 Serial Communication Protocol: Basics, Working & Specifications

NEW QUESTION # 215

An industrial control system requires strong protection against intentional violations using sophisticated means and moderate skills. According to the Security Level (SL) definitions, which SL should be targeted?

- A. SL 3
- B. SL 4
- C. SL 2
- D. SL 1

Answer: A

Explanation:

ISA/IEC 62443 defines Security Levels (SL 0-4) as qualitative representations of the system's ability to withstand different attacker capabilities. These definitions are consistent across system (3-3) and component (4-2) requirements.

Step 1: Understanding attacker models

- * SL 1 addresses casual or accidental misuse.
- * SL 2 addresses intentional violations using simple means and low skill.
- * SL 3 addresses intentional violations using sophisticated means with moderate skills.
- * SL 4 addresses highly sophisticated attackers with extended resources.

Step 2: Match requirement to definition

The question explicitly describes:

- * Intentional violations
- * Sophisticated means
- * Moderate skill level

This description directly aligns with the formal definition of SL 3.

Step 3: Why other SLs do not fit

- * SL 1 and SL 2 do not account for sophisticated attack techniques.
- * SL 4 assumes nation-state-level capability and extensive resources, which exceeds the stated threat.

Step 4: Risk-based targeting

ISA/IEC 62443-3-2 requires asset owners to select a Target Security Level (SL-T) based on risk assessment.

When threats involve deliberate, technically capable attackers but not extreme resources, SL 3 is the appropriate target.

Therefore, the correct and standards-aligned answer is SL 3.

NEW QUESTION # 216

Why is patch management more difficult for IACS than for business systems?

Available Choices (select all choices that are correct)

- A. Overtime pay is required for technicians.
- B. Business systems automatically update.
- C. Patching a live automation system can create safety risks.
- D. Many more approvals are required.

Answer: C

NEW QUESTION # 217

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