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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q13-Q18):

NEW QUESTION # 13

What type of attack is characterized by encrypting an organization's data and demanding payment for restoration?

- A. Ransomware
- B. DDoS attack
- C. Phishing
- D. Malware variant

Answer: A

Explanation:

Ransomware is a type of malicious software (malware) designed to block access to a computer system or data, typically by encrypting files, until a sum of money (ransom) is paid. This form of attack is increasingly targeting industrial automation and control system (IACS) environments due to the critical nature of these systems. Unlike phishing (which tricks users into revealing sensitive information) or DDoS attacks (which disrupt availability), ransomware specifically encrypts data and extorts the victim.

Reference: ISA/IEC 62443-3-2:2020, Annex B; ISA/IEC 62443-1-1:2007, Section 3.2.2; ISA/IEC 62443-2-1:2009, Section 4.2.3.

NEW QUESTION # 14

Why is it important for the asset owner to incorporate the IACS into its organization and security program during the Operation and Maintenance phase?

- A. To embed the IACS within organizational processes and people
- B. To guarantee that the maintenance service provider has full control over the system
- C. To allow the product supplier to update the system remotely without oversight
- D. To ensure that the system can be decommissioned immediately if needed

Answer: A

Explanation:

ISA/IEC 62443 places primary accountability for cybersecurity risk on the asset owner, particularly during the Operation and Maintenance phase of the IACS lifecycle. This phase is where systems run for years or decades, and cybersecurity effectiveness depends less on design intent and more on how people and processes operate daily.

Step 1: Lifecycle responsibility of the asset owner

ISA/IEC 62443-2-1 requires the asset owner to establish, operate, and maintain an IACS Security Program.

During operation, cybersecurity controls must be embedded into routine organizational activities such as operations, maintenance, incident handling, training, and change management.

Step 2: Integration with people and processes

The standard explicitly recognizes that technology alone cannot manage cybersecurity risk. Operators, engineers, maintenance staff, and managers must understand their cybersecurity roles. Embedding IACS security into organizational processes ensures consistent execution across shifts, teams, and sites.

Step 3: Avoiding incorrect interpretations

Immediate decommissioning is not an operational objective. Allowing unrestricted remote updates by suppliers contradicts governance requirements. Granting full control to maintenance providers violates the asset owner's accountability.

Step 4: Operational resilience

By embedding IACS security into organizational culture and workflows, the asset owner ensures that security measures are sustained, monitored, and improved over time.

Therefore, the correct reason is to embed the IACS within organizational processes and people.

NEW QUESTION # 15

Why is OPC Classic considered firewall unfriendly?

Available Choices (select all choices that are correct)

- A. OPC Classic is allowed to use only port 80.
- B. OPC Classic is an obsolete communication standard.
- **C. OPC Classic uses DCOM, which dynamically assigns any port between 1024 and 65535.**
- D. OPC Classic works with control devices from different manufacturers.

Answer: C

Explanation:

OPC Classic uses DCOM, which dynamically assigns any port between 1024 and 65535. Comprehensive Explanation: OPC Classic is a software interface technology that uses the Distributed Component Object Model (DCOM) protocol to facilitate the transfer of data between different industrial control systems. DCOM is a Microsoft technology that allows applications to communicate across a network. However, DCOM is not designed with security in mind, and it poses several challenges for firewall configuration. One of the main challenges is that DCOM does not use fixed TCP port numbers, but rather negotiates new port numbers within the first open connection. This means that intermediary firewalls can only be used with wide-open rules, leaving a large range of ports open for potential attacks. This makes OPC Classic very "firewall unfriendly" and reduces the security and protection they provide. References:

- * Tofino Security OPC Foundation White Paper
- * Step 2 (for client or server): Configuring firewall settings - GE
- * Secure firewall for OPC Classic - Design World

NEW QUESTION # 16

What caution is advised when using the vector approach to security levels?

- A. Vector approaches eliminate the need for risk models.
- B. Vector approaches are always more accurate than qualitative methods.
- **C. Vector values must align with the asset owner's risk matrix and risk appetite.**
- D. Vector values should be ignored if they do not match industry standards.

Answer: C

Explanation:

ISA/IEC 62443 allows Security Levels to be expressed as vectors across the seven Foundational Requirements, providing granular control. However, the standard cautions against using vectors in isolation.

Step 1: Purpose of the vector approach

The vector represents Target Security Levels (SL-T) for each foundational requirement within a zone, derived from risk assessment.

Step 2: Risk alignment requirement

ISA/IEC 62443-3-2 requires that SL determination be grounded in the asset owner's risk assessment methodology, including defined risk tolerance and acceptance criteria.

Step 3: Avoiding misuse

Using vectors without alignment to the organization's risk matrix can lead to inconsistent or unjustified security requirements.

Therefore, vector values must align with the asset owner's risk matrix and risk appetite.

NEW QUESTION # 17

A manufacturing plant is developing a cybersecurity plan for its IACS that must evolve as new threats emerge and system changes occur. Which document should serve as the foundation for this evolving security approach?

- A. IEC 62443-2-2 only
- **B. Security Program (SP) portfolio**
- C. Security Protection Scheme (SPS)
- D. Corporate KPIs unrelated to IACS

Answer: B

Explanation:

The Security Program (SP) portfolio, described in IEC 62443-2-1, is the cornerstone for an organization's cybersecurity management for Industrial Automation and Control Systems (IACS). It provides a structured, documented, and dynamic security management approach that evolves as system configurations change and new threats emerge.

IEC 62443-2-1, Clause 4.1.3 states:

"The organization shall develop and maintain a cyber security management system (CSMS) as part of its overall security program.

The CSMS provides a systematic approach to defining, implementing, and maintaining policies, procedures, and practices necessary to protect IACS assets." Furthermore, Clause 4.2 emphasizes:

"The security program shall be continually updated based on changes in the threat environment, vulnerabilities, or changes to the organization's IACS assets or systems." The SP portfolio includes the Cybersecurity Management System (CSMS), policies, procedures, roles, responsibilities, and improvement mechanisms. This allows continuous adaptation to evolving cybersecurity requirements.

Incorrect Options:

A). IEC 62443-2-2 only - While it focuses on implementation of security capabilities for asset owners, it does not represent the full foundation for a dynamic and evolving security plan.

C). Corporate KPIs unrelated to IACS - Irrelevant to cybersecurity planning for IACS.

D). Security Protection Scheme (SPS) - Related to zone and conduit security design (IEC 62443-3-2), but not the strategic, evolving program foundation.

References:

ISA/IEC 62443-2-1:2010 - "Security for Industrial Automation and Control Systems - Establishing an IACS Security Program" Official ISA/IEC 62443 Study Guide

NEW QUESTION # 18

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

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