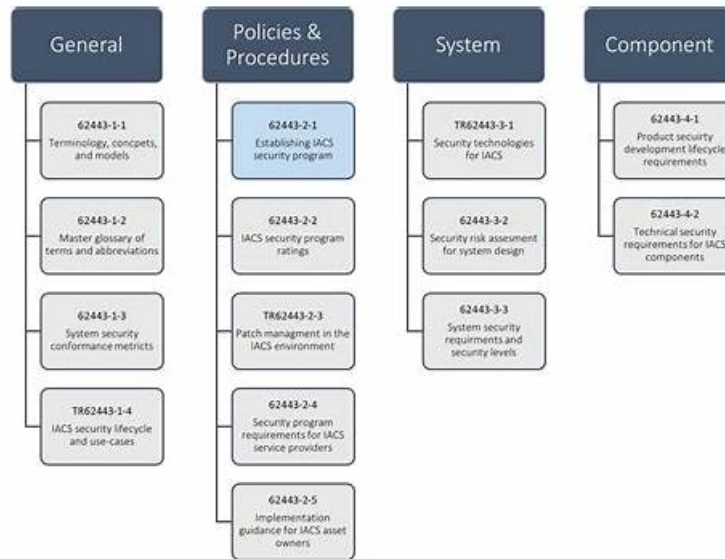


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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q43-Q48):

NEW QUESTION # 43

Which of the following are the critical variables related to access control?

Available Choices (select all choices that are correct)

- A. Password strength and change frequency
- B. Account management and monitoring
- C. Reporting and monitoring
- D. Account management and password strength

Answer: D

Explanation:

Access control is the process of granting or denying specific requests to obtain and use information and related information processing services. It is one of the foundational requirements (FRs) of the ISA/IEC 62443 standards for securing industrial automation and control systems (IACSs). According to the ISA/IEC 62443-3-3 standard, access control includes the following system requirements (SRs):

- * SR 1.1: Identification and authentication control
- * SR 1.2: Use control
- * SR 1.3: System integrity
- * SR 1.4: Data confidentiality
- * SR 1.5: Restricted data flow
- * SR 1.6: Timely response to events
- * SR 1.7: Resource availability

Among these SRs, the ones that are most related to the critical variables of account management and password strength are SR 1.1 and SR 1.2. SR 1.1 requires that the IACS shall provide the capability to uniquely identify and authenticate all users, processes, and devices that attempt to establish a logical connection to the system.

This means that the IACS should have a robust account management system that can create, modify, delete, and monitor user accounts and their privileges. It also means that the IACS should enforce strong password policies that can prevent unauthorized access or compromise of user credentials. Password strength refers to the level of difficulty for an attacker to guess or crack a password. It depends on factors such as length, complexity, randomness, and uniqueness of the password.

SR 1.2 requires that the IACS shall provide the capability to enforce the use of logical connections in accordance with the security policy of the organization. This means that the IACS should have a mechanism to control the access rights and permissions of users, processes, and devices based on their roles, responsibilities, and needs. It also means that the IACS should have a mechanism to audit and log the activities and events related to access control, such as successful or failed login attempts, password changes, privilege escalations, or unauthorized actions.

Therefore, account management and password strength are the critical variables related to access control, as they directly affect the identification, authentication, and authorization of users, processes, and devices in the IACS.

References:

- * ISA/IEC 62443-3-3:2013, Security for industrial automation and control systems - Part 3-3: System security requirements and security levels¹
- * ISA/IEC 62443 Cybersecurity Fundamentals Specialist Certificate Program²
- * ISA/IEC 62443 Cybersecurity Library³
- * Using the ISA/IEC 62443 Standards to Secure Your Control Systems⁴

NEW QUESTION # 44

Which of the following protocols is mentioned as being commonly used in control systems?

- A. SMTP
- B. FTP
- C. HTTP
- **D. Modbus TCP**

Answer: D

Explanation:

Modbus TCP is a widely used protocol in industrial control systems, enabling communication between devices such as PLCs and SCADA systems over Ethernet networks. It is an adaptation of the classic Modbus protocol to TCP/IP networks and is explicitly referenced in ISA/IEC 62443 documentation as a common protocol for IACS communications. FTP, HTTP, and SMTP are general IT protocols and not primarily associated with industrial control communications.

Reference: ISA/IEC 62443-3-3:2013, Annex D; ISA/IEC 62443-1-1:2007, Section 3.2.1.

NEW QUESTION # 45

During the operation of an IACS, who is responsible for executing the Security Protection Scheme (SPS) process measures and responding to emerging risks?

- A. The external auditor
- B. The product vendor
- **C. The asset owner**

- D. The system integrator

Answer: C

Explanation:

The asset owner holds ultimate responsibility for implementing and maintaining security measures, including the Security Protection Scheme (SPS) during the operational phase of the lifecycle. According to ISA/IEC 62443-2-1 and ISA/IEC 62443-1-1, the asset owner is tasked with ensuring that the necessary security policies, procedures, and controls are effectively executed and maintained.

"The asset owner shall define and maintain the operational security policies and procedures, ensuring the execution of the protection scheme and risk mitigation actions."

- ISA/IEC 62443-2-1:2010, Section 4.3

Furthermore, ISA/IEC 62443-1-1 clearly defines the roles and responsibilities of the asset owner in terms of operational security enforcement and ongoing risk response.

References:

ISA/IEC 62443-2-1:2010 - Section 4.3

ISA/IEC 62443-1-1:2007 - Role of Asset Owner

ISA/IEC 62443-3-2 - Risk assessment and management responsibilities

NEW QUESTION # 46

Which communications system covers a large geographic area?

Available Choices (select all choices that are correct)

- A. Storage Area Network
- B. Campus Area Network (CAN)
- C. Wide Area Network (WAN)
- D. Local Area Network (LAN)

Answer: C

NEW QUESTION # 47

Which statement is TRUE regarding application of patches in an IACS environment?

Available Choices (select all choices that are correct)

- A. Patches never should be applied in an IACS environment.
- B. Patches should be applied based on the organization's risk assessment.
- C. Patches should be applied within one month of availability.
- D. Patches should be applied as soon as they are available.

Answer: B

NEW QUESTION # 48

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