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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q90-Q95):

NEW QUESTION # 90

Which is a reason for

and physical security regulations meeting a mixed resistance?

Available Choices (select all choices that are correct)

- A. Cybersecurity risks can best be managed individually and in isolation.
- B. Regulations contain only informative elements.
- C. There are a limited number of enforced cybersecurity and physical security regulations.
- D. Regulations are voluntary documents.

Answer: C

Explanation:

Cybersecurity and physical security regulations are intended to provide guidance and requirements for protecting industrial control systems from various threats and risks. However, these regulations may face mixed resistance from different stakeholders for various reasons. One of the reasons is that there are a limited number of enforced cybersecurity and physical security regulations, especially at the international level. This means that some regions or countries may have more stringent or comprehensive regulations than others, creating inconsistencies and challenges for cross-border cooperation and compliance. Moreover, some regulations may be outdated or not aligned with the current best practices and standards, such as ISA/IEC

62443, which may limit their effectiveness and applicability. Therefore, some organizations may prefer to follow voluntary standards or frameworks, such as ISA/IEC 62443, rather than mandatory regulations, as they may offer more flexibility and adaptability to the specific needs and contexts of each industrial control system. References:

- * ISA/IEC 62443 Standards to Secure Your Industrial Control System, page 3
- * Using the ISA/IEC 62443 Standard to Secure Your Control System, page 9

NEW QUESTION # 91

Which of the following is the BEST example of detection-in-depth best practices?

Available Choices (select all choices that are correct)

- A. IDS sensors deployed within multiple zones in the production environment
- B. Firewalls and unexpected protocols being used
- C. Role-based access control and VPNs
- D. Role-based access control and unusual data transfer patterns

Answer: A

Explanation:

The best practice for detection-in-depth according to ISA/IEC 62443 involves layering different types of security controls that operate effectively under multiple scenarios and across various zones within an environment. IDS (Intrusion Detection Systems) sensors deployed across multiple zones within a production environment exemplify this strategy. By positioning sensors in various strategic locations, organizations can monitor for anomalous activities and potential threats throughout their network, thus enhancing their ability to detect and respond to incidents before they escalate. This deployment aligns with the ISA/IEC 62443 focus on comprehensive coverage and redundancy in cybersecurity mechanisms, contrasting with relying solely on perimeter defenses or single-point security solutions.

NEW QUESTION # 92

Which of the following is an example of separation of duties as a part of system development and maintenance?

Available Choices (select all choices that are correct)

- A. Changes are approved by one party and implemented by another.
- B. Configuration settings are made by one party and self-reviewed using a checklist.
- C. Developers write and then test their own code.
- D. Design and implementation are performed by the same team

Answer: A

Explanation:

Separation of duties is a security principle that aims to prevent fraud, errors, conflicts of interest, or misuse of resources by dividing critical tasks or functions among different people or teams. 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 62443-2-1 standard, separation of duties includes the following system requirements (SRs):

- * SR 2.1: Security management policy
- * SR 2.2: Personnel security
- * SR 2.3: System development and maintenance
- * SR 2.4: Incident response and recovery
- * SR 2.5: Compliance and review

Among these SRs, the one that is most related to the example of system development and maintenance is SR

2.3. SR 2.3 requires that the IACS shall provide the capability to ensure that the development and maintenance of the system and its components are performed in a secure manner. This means that the IACS should have a mechanism to control the access and authorization of developers, testers, integrators, and maintainers who work on the system and its components. It also means that the IACS should have a mechanism to verify and validate the quality and security of the system and its components before, during, and

after the development and maintenance processes.

Therefore, an example of separation of duties as a part of system development and maintenance is that changes are approved by one party and implemented by another. This ensures that the changes are authorized, documented, and reviewed by someone who is not involved in the implementation. This reduces the risk of introducing errors, vulnerabilities, or malicious code into the system and its components.

References:

- * ISA/IEC 62443-2-1:2010, Security for industrial automation and control systems - Part 2-1: Establishing an industrial automation and control systems security program1
- * 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 # 93

Which of the following is NOT listed as a potential consequence of compromising IACS according to the ISA99 Committee scope?

- A. Loss of proprietary information
- B. Economic and operational losses
- **C. Increased product sales**
- D. Endangerment of public safety

Answer: C

Explanation:

The ISA99 Committee (which develops the ISA/IEC 62443 series) clearly outlines four key consequences of compromising an Industrial Automation and Control System (IACS):

Endangerment of public or employee safety

Loss of public confidence

Violation of regulatory requirements

Loss of proprietary or confidential information

Economic and operational losses

"Increased product sales" is not listed - in fact, a compromise would likely result in the opposite, such as brand damage and loss of customer trust.

"The scope of the ISA99 Committee includes addressing risks such as the endangerment of public safety, loss of information, and economic harm arising from cyber incidents affecting IACS."

- ISA/IEC 62443-1-1:2007, Clause 1 - Scope and Purpose

References:

ISA/IEC 62443-1-1:2007 - Clause 1

ISA99 Committee Charter and Scope

NEW QUESTION # 94

What is a commonly used protocol for managing secure data transmission over a Virtual Private Network (VPN)?

Available Choices (select all choices that are correct)

- A. SSH
- B. MPLS
- **C. IPSec**
- D. HTTPS

Answer: C

NEW QUESTION # 95

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