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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q30-Q35):

NEW QUESTION # 30

What is the primary purpose of the NIST Cybersecurity Framework (CSF)?

- A. To provide a certification program for organizations
- B. To replace existing cybersecurity standards
- C. To create new cybersecurity technologies
- **D. To enhance the resilience of critical infrastructure**

Answer: D

Explanation:

The NIST Cybersecurity Framework (CSF) was developed to enhance the security and resilience of critical infrastructure in the United States by providing a flexible, repeatable, and cost-effective risk-based approach to managing cybersecurity risk. It is designed to complement, not replace, existing standards and guidelines, and is intended for voluntary adoption by critical infrastructure organizations.

Reference: ISA/IEC 62443-1-1:2007, Section 4.2.7; NIST CSF Framework Core, "Purpose and Scope" (NIST CSF 1.1, Section 1.0).

NEW QUESTION # 31

Which U.S. Department is responsible for the Chemical Facility Anti-Terrorism Standards (CFATS)?

- A. Department of Energy
- B. Nuclear Regulatory Commission
- **C. Department of Homeland Security**
- D. Transportation Security Administration

Answer: C

Explanation:

The Chemical Facility Anti-Terrorism Standards (CFATS) are managed and enforced by the U.S. Department of Homeland Security (DHS), specifically through the Cybersecurity and Infrastructure Security Agency (CISA).

"CFATS is a DHS regulatory program focused on security at high-risk chemical facilities to prevent terrorist exploitation of chemicals of interest."

- Department of Homeland Security, CFATS Program Overview

These standards require facilities to perform vulnerability assessments and implement site security plans, aligning with principles from frameworks like ISA/IEC 62443.

References:

DHS - CFATS Program Summary

ISA/IEC 62443-2-1 - Alignment with U.S. regulatory programs

NEW QUESTION # 32

An industrial facility wants to ensure that only authorized communication reaches its PLCs while minimizing disruption to time-sensitive control processes. Which type of firewall would BEST suit this need?

- A. Basic packet filter firewall without protocol awareness
- B. General-purpose software firewall
- **C. IACS-specific firewall with deep packet inspection**
- D. Unidirectional gateway (data diode)

Answer: C

Explanation:

ISA/IEC 62443 recommends protocol-aware security controls for IACS networks to protect real-time communications.

Step 1: ICS protocol awareness

IACS-specific firewalls understand industrial protocols such as Modbus, DNP3, and IEC 61850, allowing precise control without breaking deterministic behavior.

Step 2: Deep packet inspection (DPI)

DPI enables inspection of commands and function codes, blocking unauthorized actions while allowing legitimate traffic.

Step 3: Why other options are unsuitable

General-purpose firewalls lack protocol awareness. Data diodes restrict bidirectional control. Basic packet filters cannot inspect commands.

Therefore, the correct choice is IACS-specific firewall with deep packet inspection.

NEW QUESTION # 33

Which of the following is a trend that has caused a significant percentage of security vulnerabilities?

Available Choices (select all choices that are correct)

- A. IACS using equipment designed for measurement and control
- B. IACS developing into a network of air-gapped systems
- C. IACS evolving into a number of closed proprietary systems
- **D. IACS becoming integrated with business and enterprise systems**

Answer: D

Explanation:

One of the trends that has increased the security risks for industrial automation and control systems (IACS) is the integration of these systems with business and enterprise systems, such as enterprise resource planning (ERP), manufacturing execution systems (MES), and supervisory control and data acquisition (SCADA). This integration exposes the IACS to the same threats and vulnerabilities that affect the business and enterprise systems, such as malware, denial-of-service attacks, unauthorized access, and data theft. Moreover, the integration also creates new attack vectors and pathways for adversaries to compromise the IACS, such as through remote access, wireless networks, or third-party devices. Therefore, the integration of IACS with business and enterprise systems is a trend that has caused a significant percentage of security vulnerabilities. References: ISA/IEC 62443 Standards to Secure Your Industrial Control System, page 1-2.

NEW QUESTION # 34

Why is segmentation from non-IACS zones important in Network & Communication Security (SP Element 3)?

- A. To manage user identity persistence effectively
- B. To classify data according to sensitivity levels
- C. To ensure backup verification processes run smoothly
- **D. To prevent attacks originating outside the IACS**

Answer: D

Explanation:

SP Element 3 in ISA/IEC 62443-2-1 focuses on Network and Communication Security, with segmentation as a foundational control.

Step 1: Threat origin reality

Many cyberattacks targeting IACS originate from enterprise IT networks, remote access paths, or external connections. Without segmentation, these threats can propagate directly into control systems.

Step 2: Zones and conduits concept

ISA/IEC 62443 requires logical and physical separation between IACS zones and non-IACS zones, with controlled conduits enforcing security policies.

Step 3: Attack surface reduction

Segmentation limits exposure by ensuring that only explicitly authorized communications can cross zone boundaries.

Step 4: Why other options are incorrect

Data classification, identity persistence, and backup verification are handled by other SP Elements and foundational requirements. Thus, segmentation is critical to prevent attacks originating outside the IACS, making Option B correct.

NEW QUESTION # 35

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