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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q82-Q87):

NEW QUESTION # 82

What is a frequent mistake made with cybersecurity management?

- A. Ignoring organizational culture

- B. Implementing too many security practices at once
- **C. Focusing solely on technology solutions**
- D. Initially addressing smaller pieces of the entire system

Answer: C

Explanation:

One of the most frequent mistakes in cybersecurity management-according to ISA/IEC 62443 guidance-is focusing only on technological solutions and neglecting other critical components such as people, process, and culture. Effective cybersecurity management must include policies, training, incident response, and continual improvement, not just technical controls. This holistic approach is emphasized throughout the standards, particularly in the sections describing CSMS program elements and organizational responsibilities.

Reference: ISA/IEC 62443-2-1:2009, Section 4.2.3 ("Cybersecurity is not just a technology problem"); Section 6.2.4 (Organizational awareness and training).

NEW QUESTION # 83

What type of malware disrupted an emergency shutdown capability in safety systems?

- A. Stuxnet
- **B. Triton or Trisis**
- C. Zeus
- D. WannaCry

Answer: B

Explanation:

The Triton (also known as Trisis) malware specifically targeted and compromised Safety Instrumented Systems (SIS), disabling the emergency shutdown capabilities at a petrochemical plant. This attack demonstrated that safety systems, once considered isolated and secure, are vulnerable to sophisticated, targeted cyberattacks. Neither Zeus, Stuxnet, nor WannaCry had this specific impact on emergency shutdown safety systems.

Reference: ISA/IEC 62443-1-1:2007, Section 3.2.4; ISA/IEC 62443-3-3:2013, Section 4.2.2; Public incident reports and analyses of the Triton/Trisis attack (e.g., FireEye 2017 case study).

NEW QUESTION # 84

How can defense in depth be achieved via security zones?

- A. By having zones that separate sensors from actuators, that provide layered security
- B. By having a zone edge that is using the security policies of the asset owner
- C. By having zones that are connected via conduits using the latest version of SSL
- **D. By having zones within zones, or subzones, that provide layered security**

Answer: D

Explanation:

ISA/IEC 62443 defines "defense in depth" as a layered approach to security. This can be accomplished by implementing zones within zones (sometimes called subzones), where each zone or subzone provides an additional security barrier or control layer. This segmentation restricts an attacker's ability to move laterally and ensures that compromise of one zone does not automatically result in compromise of the entire system.

Reference: ISA/IEC 62443-1-1:2007, Section 4.3.3 ("Zones and Conduits"); ISA/IEC 62443-3-2:2020, Section 4.4.3 ("Layered security using zones and subzones").

NEW QUESTION # 85

As related to IACS Maintenance Service Providers, when do maintenance activities generally start?

- A. During the design phase
- B. At the beginning of the project
- C. Before the handover of the solution
- **D. After the handover of the solution**

Answer: D

Explanation:

Maintenance service activities typically begin after the system is deployed and handed over to the asset owner. This is aligned with the Operation and Maintenance phase of the IACS lifecycle.

"Maintenance service providers typically become responsible for cybersecurity-related activities after the asset owner takes ownership of the system, following handover."

- ISA/IEC 62443-2-4:2015, Clause 4.2.3 - Transition and Handover

Prior to handover, integrators and product suppliers manage the system. Maintenance providers take over only post-commissioning.

References:

ISA/IEC 62443-2-4:2015 - Clause 4.2.3

ISA/IEC 62443-1-1 - IACS lifecycle phases

NEW QUESTION # 86

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

Available Choices (select all choices that are correct)

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

Answer: D

Explanation:

Patches are software updates that fix bugs, vulnerabilities, or improve performance or functionality. Patches are important for maintaining the security and reliability of an IACS environment, but they also pose some challenges and risks. Applying patches in an IACS environment is not as simple as in an IT environment, because patches may affect the availability, integrity, or safety of the IACS. Therefore, patches should not be applied blindly or automatically, but based on the organization's risk assessment. The risk assessment should consider the following factors: 1 The severity and likelihood of the vulnerability that the patch addresses The impact of the patch on the IACS functionality and performance The compatibility of the patch with the IACS components and configuration The availability of a backup or recovery plan in case the patch fails or causes problems The testing and validation of the patch before applying it to the production system The communication and coordination with the stakeholders involved in the patching process The documentation and auditing of the patching activities and results References: ISA TR62443-2-3 - Security for industrial automation and control systems, Part 2-3: Patch management in the IACS environment

NEW QUESTION # 87

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