#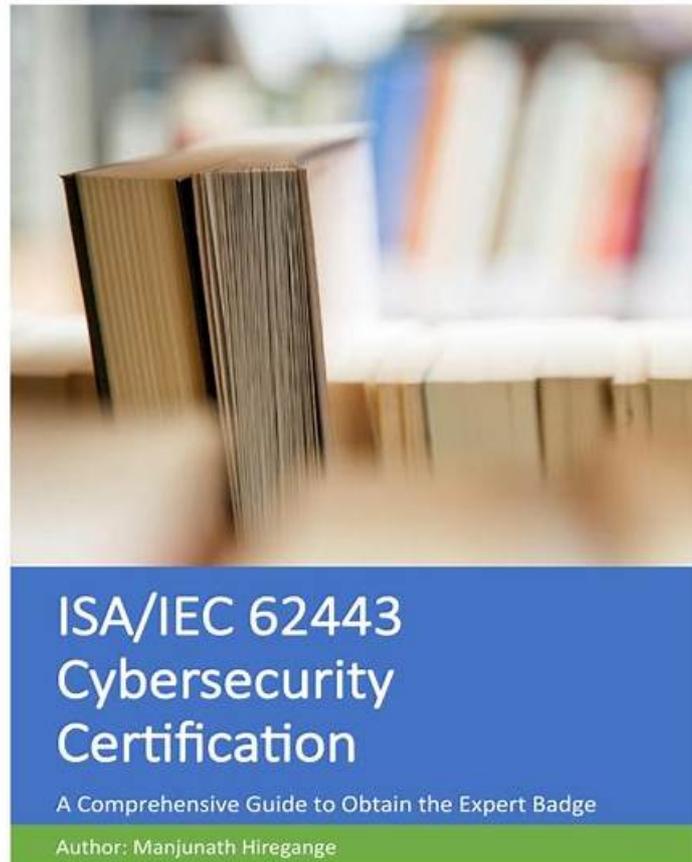 Smashing ISA-IEC-62443 Guide Materials: ISA/IEC 62443 Cybersecurity Fundamentals Specialist Deliver You Unique Exam Braindumps - Itcerttest

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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q138-Q143):

NEW QUESTION # 138
Why is patch management more difficult for IACS than for business systems?
Available Choices (select all choices that are correct)

- A. Patching a live automation system can create safety risks.
- B. Business systems automatically update.
- C. Many more approvals are required.
- D. Overtime pay is required for technicians.

Answer: A

Explanation:
Patch management is the process of applying software updates to fix security vulnerabilities, improve functionality, or enhance performance. Patch management is an essential part of cybersecurity, as unpatched systems can be exploited by malicious actors. However, patch management for industrial automation and control systems (IACS) is more challenging than for business systems, because patching a live automation system can create safety risks. According to the ISA/IEC 62443 standards, patching an IACS may have the following potential impacts1:
* Patching may introduce new vulnerabilities or errors that compromise the availability, integrity, or confidentiality of the IACS.
* Patching may affect the functionality or performance of the IACS, causing unexpected or undesired behavior, such as process shutdowns, slowdowns, or failures.
* Patching may require downtime or reduced operation of the IACS, which may affect production, quality, or profitability.
* Patching may require additional resources, such as personnel, equipment, or testing facilities, which may not be readily available or affordable.
Therefore, patch management for IACS requires careful planning, testing, and validation before applying patches to the operational environment. The ISA/IEC 62443 standards provide guidance and best practices for patch management in the IACS environment, such as1:
* Establishing a patch management program that defines roles, responsibilities, policies, and procedures for patching IACS components and systems.
* Identifying and prioritizing the IACS assets that need patching, based on their criticality, vulnerability, and risk level.
* Evaluating and verifying the patches for compatibility, functionality, and security before applying them to the IACS.
* Implementing and documenting the patching process, including backup, recovery, and rollback procedures, in case of patch failure or adverse effects.
* Monitoring and auditing the patching activities and outcomes, and reporting any issues or incidents.
References: 1: ISA TR62443-2-3 - Security for industrial automation and control systems, Part 2-3: Patch management in the IACS environment

NEW QUESTION # 139
Which of the following is the BEST example of detection-in-depth best practices?
Available Choices (select all choices that are correct)

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

Answer: B

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 # 140
Which is the PRIMARY reason why Modbus over Ethernet is easy to manaqe in a firewall?
Available Choices (select all choices that are correct)

- A. Modbus uses explicit source and destination IP addresses and a sinqle known TCP port.
- B. Modbus has no known security vulnerabilities, so firewall rules are simple to implement.
- C. Modbus uses a single master to communicate with multiple slaves usinq simple commands.
- D. Modbus is a proprietary protocol that is widely supported by vendors.

Answer: A

Explanation:
According to the ISA/IEC 62443-2-4 standard, a training and security awareness program should include all personnel who have access to the industrial automation and control system (IACS) or who are involved in its operation, maintenance, or management. This includes vendors and suppliers, employees, temporary staff, contractors, and visitors. The purpose of the program is to ensure that all personnel are aware of the security risks and policies related to the IACS, and that they have the necessary skills and knowledge to perform their roles in a secure manner. The program should also cover the roles and responsibilities of different personnel, the reporting procedures for security incidents, and the best practices for security hygiene. References:
* ISA/IEC 62443-2-4:2015 - Security for industrial automation and control systems - Part 2-4: Security program requirements for IACS service providers1
* ISA/IEC 62443 Cybersecurity Fundamentals Specialist Training Course2

NEW QUESTION # 141
Which factor drives the selection of countermeasures?
Available Choices (select all choices that are correct)

- A. Output from a risk assessment
- B. Security levels
- C. Foundational requirements
- D. System design

Answer: A

Explanation:
The selection of countermeasures is driven by the output from a risk assessment, which identifies the risks and their associated likelihood and consequences for each zone and conduit in the industrial automation and control system (IACS). The risk assessment also determines the target security level (SL-T) for each zone and conduit, which represents the desired level of protection against the identified threats. The countermeasures are then selected based on the SL-T and the existing security level (SL-A) of the zone and conduit, as well as the cost and feasibility of implementation. The countermeasures should aim to reduce the risk to an acceptable level by increasing the SL-A to meet or exceed the SL-T. References: ISA/IEC 62443-3-2:2018 - Security risk assessment for system design, ISA/IEC 62443-3-3:2013 - System security requirements and security levels, ISA/IEC 62443 Cybersecurity Fundamentals Specialist Training Course

NEW QUESTION # 142
What type of security level defines what a component or system is capable of meeting?
Available Choices (select all choices that are correct)

- A. Achieved security level
- B. Design security level
- C. Target security level
- D. Capability security level

Answer: D

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