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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q15-Q20):

NEW QUESTION # 15

Security Levels (SLs) are broken down into which three types?
Available Choices (select all choices that are correct)

- A. SL-1, SL-2, and SL-3
- B. Target.capability, and achieved
- C. Target.capacity, and achieved
- D. Target.capability, and availability

Answer: B

Explanation:

Security Levels (SLs) are a way of expressing the security performance of an industrial automation and control system (IACS) or its components. SLs are broken down into three types: target, capability, and achieved¹.

* Target SL is the level of security performance that is required for a system or component to protect against a specific threat scenario. The target SL is determined by conducting a risk assessment that considers the likelihood and impact of potential security incidents¹.

* Capability SL is the level of security performance that a system or component can provide based on its design and implementation. The capability SL is determined by evaluating the security functions and features of the system or component against a set of security requirements¹.

* Achieved SL is the level of security performance that a system or component actually provides in its operational environment. The achieved SL is determined by verifying that the system or component is properly installed, configured, maintained, and monitored¹.

References: ISA/IEC 62443 Standards to Secure Your Industrial Control System, page 3-4.

NEW QUESTION # 16

Which layer in the Open Systems Interconnection (OSI) model would include the use of the File Transfer Protocol (FTP)?

Available Choices (select all choices that are correct)

- A. Data link layer
- B. Transport layer
- C. Application layer
- D. Session layer

Answer: C

Explanation:

The File Transfer Protocol (FTP) is an application layer protocol that moves files between local and remote file systems. It runs on top of TCP, like HTTP. To transfer a file, 2 TCP connections are used by FTP in parallel: control connection and data connection. The control connection is used to send commands and responses between the client and the server, while the data connection is used to transfer the actual file. FTP is one of the standard communication protocols defined by the TCP/IP model and it does not fit neatly into the OSI model. However, since the OSI model is a reference model that describes the general functions of each layer, FTP can be considered as an application layer protocol in the OSI model, as it provides user services and interfaces to the network. The application layer is the highest layer in the OSI model and it is responsible for providing various network services to the users, such as email, web browsing, file transfer, remote login, etc. The application layer interacts with the presentation layer, which is responsible for data formatting, encryption, compression, etc. The presentation layer interacts with the session layer, which is responsible for establishing, maintaining, and terminating sessions between applications. The session layer interacts with the transport layer, which is responsible for reliable end-to-end data transfer and flow control. The transport layer interacts with the network layer, which is responsible for routing and addressing packets across different networks. The network layer interacts with the data link layer, which is responsible for framing, error detection, and medium access control. The data link layer interacts with the physical layer, which is responsible for transmitting and receiving bits over the physical medium. References:

* File Transfer Protocol (FTP) in Application Layer¹

* FTP Protocol²

* What OSI layer is FTP?³

NEW QUESTION # 17

Which of the following is the BEST reason for periodic audits?

Available Choices (select all choices that are correct)

- A. To meet regulations
- B. To confirm audit procedures
- C. To validate that security policies and procedures are performing
- D. To adhere to a published or approved schedule

Answer: C

Explanation:

Periodic audits are an essential part of the ISA/IEC 62443 cybersecurity standards, as they help to verify the effectiveness and compliance of the security program. According to the ISA/IEC 62443-2-1 standard, periodic audits should be conducted to evaluate the following aspects¹:

The security policies and procedures are consistent with the security requirements and objectives of the organization The security

policies and procedures are implemented and enforced in accordance with the security program The security policies and procedures are reviewed and updated regularly to reflect changes in the threat landscape, the IACS environment, and the business needs The security performance indicators and metrics are measured and reported to the relevant stakeholders The security incidents and vulnerabilities are identified, analyzed, and resolved in a timely manner The security awareness and training programs are effective and aligned with the security roles and responsibilities of the personnel The security audits and assessments are conducted by qualified and independent auditors The security audit and assessment results are documented and communicated to the appropriate parties The security audit and assessment findings and recommendations are addressed and implemented in a prioritized and systematic way Periodic audits are not only a means to meet regulations or adhere to a schedule, but also a way to validate that the security policies and procedures are performing as intended and achieving the desired security outcomes. Periodic audits also help to identify gaps and weaknesses in the security program and provide opportunities for improvement and enhancement. References: Periodic audits are an essential part of the ISA/IEC 62443 cybersecurity standards, as they help to verify the effectiveness and compliance of the security program. According to the ISA/IEC 62443-2-1 standard, periodic audits should be conducted to evaluate the following aspects1:

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NEW QUESTION # 18

Which of the following is an industry sector-specific standard?

Available Choices (select all choices that are correct)

- A. API 1164
- B. ISA-62443 (EC 62443)
- C. ISO 27001
- D. NIST SP800-82

Answer: A

NEW QUESTION # 19

Multiuser accounts and shared passwords inherently carry which of the following risks?

Available Choices (select all choices that are correct)

- A. Unauthorized access
- B. Race conditions
- C. Buffer overflow
- D. Privilege escalation

Answer: A,D

Explanation:

Multiuser accounts and shared passwords are accounts and passwords that are used by more than one person to access a system or a resource. They inherently carry the risk of unauthorized access, which means that someone who is not authorized or intended to use the account or password can gain access to the system or resource, and potentially compromise its confidentiality, integrity, or availability. For example, if a multiuser account and password are shared among several operators of an industrial automation and control system (IACS), an attacker who obtains the password can use the account to access the IACS and perform malicious actions, such as changing the system settings, deleting data, or disrupting the process. Multiuser accounts and shared passwords also make it difficult to track and audit the activities of individual users, and to enforce the principle of least privilege, which states that users should only have the minimum level of access required to perform their tasks. Therefore, the ISA/IEC 62443 standards recommend avoiding the use of multiuser accounts and shared passwords, and instead using individual accounts and strong passwords for each user, and implementing authentication and authorization mechanisms to control the access to the IACS.

References:

ISA/IEC 62443-3-3:2013 - Security for industrial automation and control systems - Part 3-3: System security requirements and security levels
1 ISA/IEC 62443-2-1:2009 - Security for industrial automation and control systems - Part 2-1: Establishing an industrial automation and control systems security program
2 ISA/IEC 62443 Cybersecurity Fundamentals Specialist Training Course
3 Shared passwords and multiuser accounts pose specific risks, notably unauthorized access and privilege escalation. In ISA/IEC 62443's framework, these practices are discouraged because they complicate the attribution of actions to individual users and increase the likelihood that accounts can be used beyond their intended scope. Unauthorized access occurs when individuals exploit the shared nature of an account to gain entry to systems or data that they should not access. Privilege escalation can happen when users leverage shared accounts to perform actions at higher permission levels than those assigned to their personal accounts. Conversely, buffer overflows and race conditions are types of vulnerabilities or programming errors, not directly associated with the risks of multiuser accounts or shared passwords.

NEW QUESTION # 20

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