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## Quiz 2025 ISA ISA-IEC-62443: ISA/IEC 62443 Cybersecurity Fundamentals Specialist Useful Test Dumps.zip

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## ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q47-Q52):

### NEW QUESTION # 47

An industrial control system requires strong protection against intentional violations using sophisticated means and moderate skills. According to the Security Level (SL) definitions, which SL should be targeted?

- A. SL 1
- B. SL 4
- C. SL 2
- **D. SL 3**

**Answer: D**

Explanation:

Security Levels (SLs) in the ISA/IEC 62443 framework define the degree of protection against specific threat actors. SL 3 is designed to protect against intentional violations using sophisticated means with moderate skills, moderate motivation, and IACS-specific knowledge.

"SL 3: Protection against intentional violation using sophisticated means with moderate skills, moderate motivation, and IACS-specific knowledge."

- ISA/IEC 62443-3-3:2013, Table 3 - Target Security Level definitions

This level is commonly applied to systems facing well-resourced threat actors such as organized cybercriminals or advanced persistent threats (APTs), where higher assurance is necessary than what SL1 or SL2 would provide.

References:

ISA/IEC 62443-3-3:2013 - Table 3

ISA/IEC 62443-1-1 - Security Level Definitions

ISA/IEC 62443-3-2 - Security level selection and justification guidance

### NEW QUESTION # 48

During the operation of an IACS, who is responsible for executing the Security Protection Scheme (SPS) process measures and responding to emerging risks?

- **A. The asset owner**
- B. The external auditor
- C. The product vendor
- D. The system integrator

**Answer: A**

Explanation:

The asset owner holds ultimate responsibility for implementing and maintaining security measures, including the Security Protection Scheme (SPS) during the operational phase of the lifecycle. According to ISA/IEC

62443-2-1 and ISA/IEC 62443-1-1, the asset owner is tasked with ensuring that the necessary security policies, procedures, and controls are effectively executed and maintained.

"The asset owner shall define and maintain the operational security policies and procedures, ensuring the execution of the protection scheme and risk mitigation actions."

- ISA/IEC 62443-2-1:2010, Section 4.3

Furthermore, ISA/IEC 62443-1-1 clearly defines the roles and responsibilities of the asset owner in terms of operational security enforcement and ongoing risk response.

References:

ISA/IEC 62443-2-1:2010 - Section 4.3

ISA/IEC 62443-1-1:2007 - Role of Asset Owner

ISA/IEC 62443-3-2 - Risk assessment and management responsibilities

### NEW QUESTION # 49

What are three possible entry points (pathways) that could be used for launching a cyber attack?

Available Choices (select all choices that are correct)

- A. LAN, portable media, and hard drives
- **B. LAN, portable media, and wireless**
- C. LAN, WAN, and hard drive
- D. LAN, power source, and wireless OD.

**Answer: B**

Explanation:

A cyber attack is an attempt to compromise the confidentiality, integrity, or availability of a computer system or network by exploiting its vulnerabilities. A cyber attack can be launched from various entry points, which are the pathways that allow an attacker to access a target system or network. According to the ISA/IEC 62443-

3-2 standard, which defines a method for conducting a security risk assessment for industrial automation and control systems (IACS), some of the possible entry points for a cyber attack are:

\* LAN: A local area network (LAN) is a network that connects devices within a limited geographic area, such as a building or a campus. A LAN can be an entry point for a cyber attack if an attacker gains physical or logical access to the network devices, such as switches, routers, firewalls, or servers. An attacker can use various techniques to access a LAN, such as network scanning, spoofing, sniffing, or hijacking. An attacker can also exploit vulnerabilities in the network protocols, services, or applications that run on the LAN. A cyber attack on a LAN can affect the communication and operation of the devices and systems connected to the network, such as IACS.

\* Portable media: Portable media are removable storage devices that can be used to transfer data between different systems or devices, such as USB flash drives, CDs, DVDs, or external hard drives. Portable media can be an entry point for a cyber attack if an attacker uses them to introduce malicious code or data into a target system or device. An attacker can use various techniques to infect portable media, such as autorun, social engineering, or physical tampering. An attacker can also exploit vulnerabilities in the operating systems, drivers, or applications that interact with portable media. A cyber attack using portable media can affect the functionality and security of the systems or devices that use them, such as IACS.

\* Wireless: Wireless is a technology that enables communication and data transmission without physical wires or cables, such as Wi-Fi, Bluetooth, or cellular networks. Wireless can be an entry point for a cyber attack if an attacker intercepts, modifies, or disrupts the wireless signals or data. An attacker can use various techniques to access wireless networks or devices, such as cracking, jamming, or eavesdropping. An attacker can also exploit vulnerabilities in the wireless protocols, standards, or encryption methods. A cyber attack on wireless can affect the availability and reliability of the wireless communication and data transmission, such as IACS.

Therefore, LAN, portable media, and wireless are three possible entry points that could be used for launching a cyber attack.

References:

\* Cybersecurity Risk Assessment According to ISA/IEC 62443-3-21

\* ISA/IEC 62443 Series of Standards2

## NEW QUESTION # 50

Authorization (user accounts) must be granted based on which of the following?

Available Choices (select all choices that are correct)

- A. Common needs for large groups
- B. System complexity
- **C. Specific roles**
- D. Individual preferences

**Answer: C**

Explanation:

Authorization is the process of granting or denying access to a network resource or function. Authorization (user accounts) must be granted based on specific roles, which are defined as sets of permissions and responsibilities assigned to a user or a group of users. Roles should be based on the principle of least privilege, which means that users should only have the minimum level of access required to perform their tasks. Roles should also be based on the principle of separation of duties, which means that users should not have conflicting or overlapping responsibilities that could compromise the security or integrity of the system.

Authorization based on individual preferences or common needs for large groups is not recommended, as it could lead to excessive or unnecessary access rights, or to inconsistent or conflicting policies. Authorization based on system complexity is also not a good criterion, as it could result in overcomplicated or unclear roles that are difficult to manage or audit. References:

ISA/IEC 62443-3-3:2013 - Security for industrial automation and control systems - Part 3-3: System security requirements and

security levels1 ISA/IEC 62443-2-1:2010 - Security for industrial automation and control systems - Part 2-1: Establishing an industrial automation and control systems security program2 ISA/IEC 62443-4-1:2018 - Security for industrial automation and control systems - Part 4-1: Product security development life-cycle requirements3

### NEW QUESTION # 51

Which is the PRIMARY reason why Modbus over Ethernet is easy to manage in a firewall?

Available Choices (select all choices that are correct)

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

**Answer: C**

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 # 52

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