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ISA-IEC-62443 Question Explanations: ISA/IEC 62443

Cybersecurity Fundamentals Specialist

	Day 1 (25/03/2026)		Day 2 (26/03/2026)
08:45	Registration / Coffee	08:30	Wrap-up Summary of day 1 Analysis of a threat scenario
09:00	Introduction Overview of ISA-99 and IEC 62443 Exercise on a hacking demo	09:15	IEC 62443-3-3, IEC 62443-4-2 System security requirements to products and automation solutions and IACS Technical security requirements to IACS components
10:00	Basic concepts of IEC 62443 What constitutes an IACS Roles and responsibilities Defense-in-depth Elements of a security program IACS lifecycles and product lifecycles Risk-based approach Security Levels and Maturity Levels Security Protection Ratings (SPR)	10:15	Break
11:30	Lunch	10:30	Deep dive in IEC 62443-3-2 Risk-based approach for system partitioning in zones and conduits
12:15	Basic concepts of IEC 62443 (continued)	11:30	Lunch
13:45	Break	12:15	IEC 62443-2-4 Duties of system integrators and maintenance service providers
14:00	Basic concepts of IEC 62443 (continued)	13:00	Activities in the lifecycle of Security Protection Schemes Cybersecurity Requirement Specification Design and implementation of technical security measures Use of SPR during design and implementation Initial validation of technical and organizational security measures Operation of a Security Protection Scheme Periodic revalidation of a Security Protection Scheme Update and maintenance of a Security Protection Scheme Use of SPR during operation and maintenance
14:30	IEC 62443-2-1 Duties of asset owners Security Program (SP) and Security Protection Schemes (SPS) Security Program Elements	13:45	Break
15:30	Break	14:00	Activities in the lifecycle of Security Protection Schemes (continued)
15:45	Combining ISO/ IEC 27001 and IEC 62443 Combining IT and OT security requirements for the protection of operating facilities Grouping of security requirements	15:00	Simplified use of Security Protection Ratings Use of views in specification phase Use of views in integration / commissioning phase Use of views in operation / maintenance phase
16:30	IEC 62443-4-1 Secure product development lifecycle requirements Duties of products suppliers for the protection of operating facilities	15:20	Final discussion
17:15	Final discussion	15:30	End of Day 2
17:30	End of Day 1		

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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q21-Q26):

NEW QUESTION # 21

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 # 22

Which statement BEST describes the enforceability of standards?

- A. Courts never consider standards when determining liability.
- **B. Compliance with standards is voluntary.**
- C. Standards have criminal penalties for non-compliance.
- D. Standards are always legally binding and must be followed.

Answer: B

Explanation:

Standards like ISA/IEC 62443 are generally voluntary unless they are incorporated into law, regulation, or contractual obligation. However, they can be used in legal proceedings to determine whether an organization met its duty of care.

"Compliance with standards is generally voluntary, but standards may become mandatory if referenced in laws, regulations, or contracts. Courts may consider them in liability cases."

- ISA/IEC 62443-1-1:2007 - Clause 5.3 - Relationship to Regulatory Requirements Therefore, while not automatically legally binding, standards can have significant regulatory and legal influence.

References:

ISA/IEC 62443-1-1:2007 - Clause 5.3

ISO/IEC Guide 2 - Terminology for standardization

NEW QUESTION # 23

Which of the following protocols is mentioned as being commonly used in control systems?

- A. FTP
- B. HTTP
- C. SMTP
- **D. Modbus TCP**

Answer: D

Explanation:

Modbus TCP is a widely used protocol in industrial control systems, enabling communication between devices such as PLCs and SCADA systems over Ethernet networks. It is an adaptation of the classic Modbus protocol to TCP/IP networks and is explicitly referenced in ISA/IEC 62443 documentation as a common protocol for IACS communications. FTP, HTTP, and SMTP are general IT protocols and not primarily associated with industrial control communications.

Reference: ISA/IEC 62443-3-3:2013, Annex D; ISA/IEC 62443-1-1:2007, Section 3.2.1.

NEW QUESTION # 24

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

- A. To provide a certification 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 primary goal of the NIST Cybersecurity Framework (CSF) is to help organizations enhance the security and resilience of critical infrastructure and reduce cybersecurity risks through a structured, risk-based approach.

"The Framework provides a policy framework of computer security guidance for how private sector organizations in the United States can assess and improve their ability to prevent, detect, and respond to cyber attacks. It is intended to enhance the resilience of critical infrastructure."

- NIST CSF v1.1, Section 1.0 - Overview

The NIST CSF does not create new standards or certify organizations - it references existing standards and guides implementation in a flexible and sector-neutral way.

References:

NIST Cybersecurity Framework v1.1 - Section 1

ISA/IEC 62443-2-1 - Mapping to NIST CSF

NEW QUESTION # 25

Which is a role of the application layer?

Available Choices (select all choices that are correct)

- **A. Delivers and formats information, possibly with encryption and security**
- B. Provides the mechanism for opening, closing, and managing a session between end-user application processes
- **C. Includes protocols specific to network applications such as email, file transfer, and reading data registers in a PLC**
- D. Includes user applications specific to network applications such as email, file transfer, and reading data registers in a PLC

Answer: A,C

Explanation:

The application layer is the topmost layer of the OSI model, which provides the interface between the user and the network. It includes protocols specific to network applications such as email, file transfer, and reading data registers in a PLC. These protocols deliver and format information, possibly with encryption and security, to ensure reliable and meaningful communication between different applications. The application layer does not include user applications, which are separate from the network protocols. The application layer also does not provide the mechanism for opening, closing, and managing a session between end-user application processes, which is the function of the session layer. References:

* ISA/IEC 62443 Cybersecurity Fundamentals Specialist Study Guide, page 181

* Using the ISA/IEC 62443 Standards to Secure Your Control System, page 82 The application layer in network protocols, such as in the OSI model or the TCP/IP protocol suite, is primarily responsible for providing services directly to user applications. This layer is involved in:

* Option A: Including protocols specific to network applications such as email, file transfer, and industrial protocols like reading data registers in a Programmable Logic Controller (PLC). This is a core function of the application layer as it facilitates specific high-level networking capabilities.

* Option D: Delivering and formatting information, which can include encryption and ensuring the security of data as it is transmitted across the network. This includes protocols like HTTP for web browsing which can encrypt data via HTTPS, SMTP for secure email transmission, and FTP for secure file transfer.

NEW QUESTION # 26

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Instead, Active Directory uses a technique called multimaster replication ISA-IEC-62443 Question Explanations to distribute copies of the Active Directory database to all other DCs that share the same Active Directory namespace.

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