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ISA/IEC 62443 Cybersecurity Fundamentals Specialist (Module 1) 2025/2026 Exam Questions and Verified Answers | Already Graded A+



The primary focus of this course - ANSWER ✓✓structure and content of the ISA/IEC 62443 standards

ISA/IEC 62443 provides - ANSWER ✓✓Industrial security framework

RaaS - ANSWER ✓✓Ransomware as a Service

what is stuxnet - ANSWER ✓✓Stuxnet is a malware that was discovered in 2010 and is believed to have been part of a covert espionage or sabotage campaign aimed at Iran's nuclear program

what is Shamoon? - ANSWER ✓✓destructive malware designed to wipe infected systems by overwriting information



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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q42-Q47):

NEW QUESTION # 42

What is a frequent mistake made with cybersecurity management?

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

Answer: A

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 # 43

When selecting a risk assessment methodology for a complex industrial automation system, which approach aligns BEST with ISA/IEC 62443 guidance?

- A. Avoid using standards or frameworks to maintain flexibility.
- B. Only perform qualitative assessments without quantitative measures.
- C. Use different methodologies for initial and detailed assessments to cover more perspectives.
- D. Follow any documented methodology as long as it uses a consistent risk ranking scale.

Answer: D

Explanation:

ISA/IEC 62443-3-2 states that while it doesn't mandate a specific risk methodology, the chosen approach must be documented, consistent, and based on a risk ranking scale that enables the comparison and prioritization of security needs.

"Any documented risk assessment methodology may be used, provided it results in a repeatable risk ranking and includes asset, threat, and vulnerability evaluation."

- ISA/IEC 62443-3-2:2020, Clause 6.4.1 - Risk Assessment Methodology

This ensures compatibility with SL-T (Target Security Level) assignment and zone/conduit design. Flexibility is allowed, but methodology must be traceable and consistently applied.

References:

ISA/IEC 62443-3-2:2020 - Clause 6.4.1

ISA/IEC 62443-2-1 - Organizational guidance for risk assessments

NEW QUESTION # 44

To which category of the ISA-62443 (IEC 62443) series does the document titled "Patch management in the IACS environment" belong?

- A. Component
- B. Policies and Procedures

- C. System
- D. General

Answer: B

Explanation:

The ISA/IEC 62443 series organizes documents into categories: General, Policies and Procedures, System, and Component. The document titled "Patch management in the IACS environment" is part of the Policies and Procedures group (specifically, ISA/IEC 62443-2-3). This group addresses processes, procedures, and organizational measures for cybersecurity in industrial automation and control systems (IACS), including topics like patch management, which deals with evaluating, testing, and installing updates or patches to reduce vulnerabilities in control systems.

Reference: ISA/IEC 62443-2-3:2015, Introduction and Scope; ISA/IEC 62443-1-1:2007, Section 4.1.2.

NEW QUESTION # 45

What is the purpose of ISO/IEC 15408 (Common Criteria)?

Available Choices (select all choices that are correct)

- A. To describe what constitutes a secure product
- **B. To define a product development evaluation methodology**
- C. To define a security management organization
- D. To describe a process for risk management

Answer: B

Explanation:

ISO/IEC 15408, also known as the Common Criteria for Information Technology Security Evaluation, is an international standard that provides a framework for evaluating the security of IT products and systems. The purpose of the standard is to define a common set of requirements for the security functions and assurance measures of IT products and systems, and to establish a common methodology for conducting security evaluations. The standard allows users to specify their security needs and expectations in a Security Target (ST), which may be based on one or more Protection Profiles (PPs) that define security requirements for a class of products or systems. Vendors can then implement or claim compliance with the ST or PPs, and have their products or systems evaluated by independent testing laboratories against the security criteria defined in the standard. The standard also defines a scale of Evaluation Assurance Levels (EALs) that indicate the degree of confidence in the security of the evaluated product or system. The standard is intended to facilitate the development, procurement, and use of secure IT products and systems, and to promote the recognition and acceptance of evaluation results across different countries and regions. References:

ISO/IEC 15408-1:2009 - Common Criteria Evaluation for IT Security - Nemko1 Common Criteria - Wikipedia2 ISO/IEC Standard 15408 - ENISA3

NEW QUESTION # 46

Which of the following attacks relies on a human weakness to succeed?

Available Choices (select all choices that are correct)

- **A. Phishing**
- B. Denial-of-service
- C. Spoofing
- D. Escalation-of-privileges

Answer: A

Explanation:

Phishing is a type of cyberattack that relies on a human weakness to succeed. Phishing is the practice of sending fraudulent emails or other messages that appear to come from a legitimate source, such as a bank, a government agency, or a trusted person, in order to trick the recipient into revealing sensitive information, such as passwords, credit card numbers, or personal details, or into clicking on malicious links or attachments that may install malware or ransomware on their devices. Phishing is a common and effective way of compromising the security of industrial automation and control systems (IACS), as it can bypass technical security measures by exploiting the human factor. Phishing can also be used to gain access to the IACS network, to conduct reconnaissance, to launch further attacks, or to cause damage or disruption to the IACS operations. The ISA/IEC 62443 series of standards recognize phishing as a potential threat vector for IACS and provide guidance and best practices on how to prevent, detect, and respond to phishing attacks. Some of the recommended countermeasures include:

Educating and training the IACS staff on how to recognize and avoid phishing emails and messages, and how to report any suspicious or malicious activity.

Implementing and enforcing policies and procedures for email and message security, such as using strong passwords, verifying the sender's identity, and not opening or clicking on unknown or unsolicited links or attachments.

Applying technical security controls, such as antivirus software, firewalls, spam filters, encryption, and authentication, to protect the IACS devices and network from phishing attacks.

Monitoring and auditing the IACS network and devices for any signs of phishing attacks, such as anomalous or unauthorized traffic, connections, or activities, and taking appropriate actions to contain and mitigate the impact of any incidents. References:

ISA/IEC 62443-1-1:2009, Security for industrial automation and control systems - Part 1-1: Terminology, concepts and models¹

ISA/IEC 62443-2-1:2009, Security for industrial automation and control systems - Part 2-1: Establishing an industrial automation and control systems security program²

ISA/IEC 62443-2-4:2015, Security for industrial automation and control systems - Part 2-4: Security program requirements for IACS service providers³

ISA/IEC 62443-3-3:2013, Security for industrial automation and control systems - Part 3-3: System security requirements and security levels⁴

ISA/IEC 62443-4-2:2019, Security for industrial automation and control systems - Part 4-2: Technical security requirements for IACS components⁵

NEW QUESTION # 47

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

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