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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q193-Q198):

NEW QUESTION # 193

Which organization manages the ISASecure conformance certification program?

Available Choices (select all choices that are correct)

- A. American Society for Industrial Security
- B. National Institute of Standards and Technology
- C. Automation Federation
- D. Security Compliance Institute

Answer: D

NEW QUESTION # 194

Who must be included in a training and security awareness program?

Available Choices (select all choices that are correct)

- A. Temporary staff
- B. Employees

- C. Vendors and suppliers
- **D. All personnel**

Answer: D

NEW QUESTION # 195

Which service does an Intrusion Detection System (IDS) provide?

- A. It blocks malicious activity in networks and computer systems.
- B. It is the lock on the door for networks and computer systems.
- **C. It detects attempts to break into or misuse a computer system.**
- D. It is effective against all vulnerabilities in networks and computer systems.

Answer: C

Explanation:

An Intrusion Detection System (IDS) is a passive monitoring tool that detects unauthorized or malicious activity in networked systems. It does not block traffic (like an IPS), but rather alerts administrators to potential breaches.

"An IDS monitors network or system activities for malicious actions or policy violations and produces alerts or logs for analysis."

- ISA/IEC 62443-3-3:2013, SR 3.2 - Detection of Security Events

It's a core component of security monitoring and response - often paired with an Incident Response Plan (IRP) as defined in ISA/IEC 62443-2-1.

Clarification of Options:

Option A is metaphorical and not technically accurate.

Option B is false; IDS does not protect against all vulnerabilities.

Option C is incorrect; IDS does not block, only detects.

Option D is correct - it detects unauthorized access or misuse.

References:

ISA/IEC 62443-3-3:2013 - SR 3.2

ISA/IEC 62443-2-1:2010 - SP Element 7: Incident Response

NIST SP 800-94 - Guide to Intrusion Detection Systems

NEW QUESTION # 196

Which of the following is a cause for the increase in attacks on IACS?

Available Choices (select all choices that are correct)

- A. Fewer personnel with system knowledge having access to IACS
- **B. Use of proprietary communications protocols**
- C. The move away from commercial off the shelf (COTS) systems, protocols, and networks
- **D. Knowledge of exploits and tools readily available on the Internet**

Answer: B,D

Explanation:

One of the reasons for the increase in attacks on IACS is the availability of information and tools that can be used to exploit vulnerabilities in these systems. The Internet provides a platform for hackers, researchers, and activists to share their knowledge and techniques for compromising IACS. Some examples of such information and tools are:

* Stuxnet: A sophisticated malware that targeted the Iranian nuclear program in 2010. It exploited four zero-day vulnerabilities in Windows and Siemens software to infect and manipulate the programmable logic controllers (PLCs) that controlled the centrifuges. Stuxnet was widely analyzed and reported by the media and security experts, and its source code was leaked online¹.

* Metasploit: A popular penetration testing framework that contains modules for exploiting various IACS components and protocols. For instance, Metasploit includes modules for attacking Modbus, DNP3, OPC, and Siemens S7 devices².

* Shodan: A search engine that allows users to find devices connected to the Internet, such as webcams, routers, printers, and IACS components. Shodan can reveal the location, model, firmware, and configuration of these devices, which can be used by attackers to identify potential targets and vulnerabilities³.

* ICS-CERT: A website that provides alerts, advisories, and reports on IACS security issues and incidents. ICS-CERT also publishes vulnerability notes and mitigation recommendations for various IACS products and vendors⁴. These sources of information and tools can be useful for legitimate purposes, such as security testing, research, and education, but they can also be misused by malicious actors who want to disrupt, damage, or steal from IACS. Therefore, IACS owners and operators should be aware of the

threats and risks posed by the Internet and implement appropriate security measures to protect their systems. References:

* The increase in attacks on Industrial Automation and Control Systems (IACS) can be attributed to several factors, including: A. Use of proprietary communications protocols: These can pose security risks because they may not have been designed with security in mind and are often not as well-tested against security threats as more standard protocols. C. Knowledge of exploits and tools readily available on the Internet: The availability of information about vulnerabilities and exploits on the internet has made it easier for attackers to target IACS.

* The other options, B and D, are incorrect because: B. The move towards commercial off-the-shelf (COTS) systems, protocols, and networks actually increases risk because these systems are more likely to be known and targeted by attackers, compared to proprietary systems which might benefit from security through obscurity. D. There is actually an increase in risk with more personnel with system knowledge because it enlarges the attack surface - each individual with system knowledge can potentially become a vector for an attack, either maliciously or accidentally.

NEW QUESTION # 197

What change was introduced in the second edition (2024) of ISA-62443-2-1 compared to the first edition (2010)?

- A. Removal of supply chain security considerations
- B. Focus only on individual system components rather than overall system
- C. Elimination of duplication of ISMS requirements
- D. Introduction of a new PDCA cycle framework

Answer: C

Explanation:

The 2024 Second Edition of ISA/IEC 62443-2-1 was restructured to eliminate redundancy with ISO/IEC 27001 and to focus on aspects unique to IACS environments.

From ISA/IEC 62443-2-1:2024 Preface:

"The second edition removes duplication with ISO/IEC 27001 and instead focuses on IACS-specific considerations that complement an organization's overall ISMS." It still aligns with the Plan-Do-Check-Act (PDCA) model but no new framework was introduced - rather, clarity and applicability were improved.

Incorrect Options:

A). The PDCA model was retained, not newly introduced.

C). Supply chain security was actually emphasized, not removed.

D). The focus remains on system-wide security management, not just components.

References:

ISA/IEC 62443-2-1:2024 - "Establishing an IACS Security Program" (Second Edition) ISA/IEC 62443 Study Guide

NEW QUESTION # 198

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