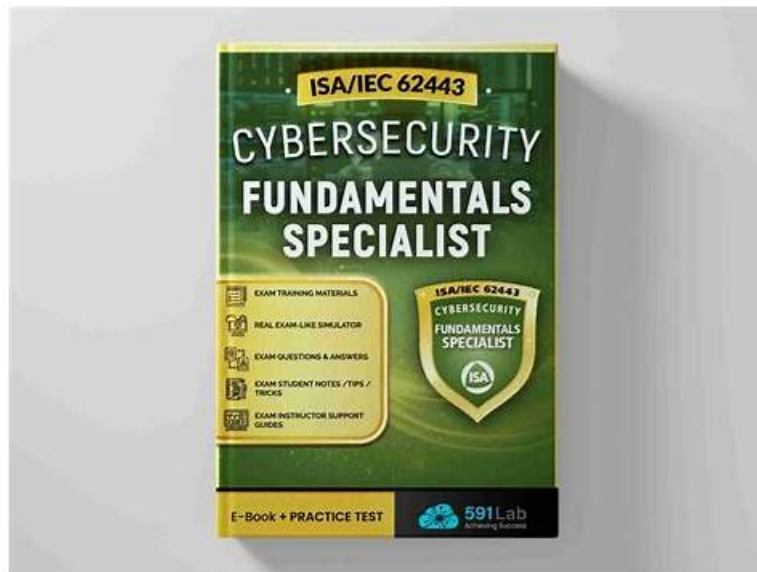


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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q189-Q194):

NEW QUESTION # 189

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

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

Answer: A

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 # 190

Which statement BEST describes the enforceability of standards?

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

Answer: A

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 # 191

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

Available Choices (select all choices that are correct)

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

Answer: A,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 online.

* 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 # 192

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

Available Choices (select all choices that are correct)

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

Answer: B,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 levels¹

* 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 Cybersecurity Fundamentals Specialist Training Course³

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 # 193

What is the purpose of ICS-CERT Alerts?

- A. To inform about hardware upgrades
- B. To advertise cybersecurity services
- C. To alert of targeted global energy sector threats
- **D. To notify the owners of critical infrastructure**

Answer: D

Explanation:

ICS-CERT (Industrial Control Systems Cyber Emergency Response Team) issues alerts to inform critical infrastructure owners and operators about newly discovered vulnerabilities, threats, and mitigation strategies.

"ICS-CERT Alerts provide timely information to critical infrastructure owners and operators concerning current security issues, vulnerabilities, and exploits."

- ICS-CERT Advisory Documentation (now under CISA)

Alerts may be sector-wide or vendor-specific, and are part of the U.S. Department of Homeland Security's proactive cyber defense strategy.

Clarification of Options:

Not specific to the energy sector only (D is too narrow)

Not promotional in nature (eliminates A and B)

References:

ICS-CERT Alert Guidance (now under CISA)

ISA/IEC 62443-2-1 - External threat awareness

NEW QUESTION # 194

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