

ISA-IEC-62443考試內容 & ISA-IEC-62443考古題



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>> ISA-IEC-62443考試內容 <<

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最新的 ISA Cybersecurity ISA-IEC-62443 免費考試真題 (Q76-Q81):

問題 #76

Which steps are part of implementing countermeasures?

Available Choices (select all choices that are correct)

- A. Select common countermeasures and update the business continuity plan.
- **B. Establish the risk tolerance and select common countermeasures.**
- C. Establish the risk tolerance and update the business continuity plan.
- D. Select common countermeasures and collaborate with stakeholders.

答案: B

解題說明:

According to the ISA/IEC 62443-3-2 standard, implementing countermeasures is one of the steps in the security risk assessment for system design. The standard defines a comprehensive set of engineering measures to guide organizations through the process of assessing the risk of a particular industrial automation and control system (IACS) and identifying and applying security countermeasures to reduce that risk to tolerable levels. The standard recommends the following steps for implementing

countermeasures:

Establish the risk tolerance: This step involves determining the acceptable level of risk for the organization and the system under consideration, based on the business objectives, legal and regulatory requirements, and stakeholder expectations. The risk tolerance can be expressed as a target security level (SL-T) for each zone or conduit in the system.

Select common countermeasures: This step involves selecting the appropriate security countermeasures for each zone or conduit, based on the SL-T and the existing security level (SL-A) of the system. The standard provides a list of common countermeasures for each security level, covering the domains of physical security, network security, system security, and application security. The selected countermeasures should be documented and justified in the security risk assessment report. References: ISA/IEC 62443 Cybersecurity Series Designated as IEC Horizontal Standards, Cybersecurity Risk Assessment According to ISA/IEC 62443-3-2

問題 #77

How should patching be approached within an organization?

- A. Only after a cyberattack has occurred
- B. As a purely technical task with no business implications
- C. As part of the broader risk management strategy
- D. By ignoring downtime and costs

答案: C

解題說明:

Patching in industrial environments must align with the broader risk management strategy due to the potential impact on system availability, safety, and compliance. According to ISA/IEC 62443-2-1, patch management is considered a part of operational security controls, and the standard emphasizes that patching decisions must be risk-informed.

"Patch management procedures shall consider the risk of system impact and ensure minimal disruption to IACS operation. The decision to apply patches must be based on risk assessments and business impact evaluations."

- ISA/IEC 62443-2-1:2010, Section 4.3.4.3

Additionally, ISA/IEC 62443-2-3 also supports the integration of patch management within the broader context of security maintenance planning.

References:

ISA/IEC 62443-2-1:2010 - Section 4.3.4.3

ISA/IEC 62443-2-3:2015 - Patch management processes

ISA/IEC 62443-1-2 - Definitions and risk-based approach guidance

問題 #78

Which of the following ISA-99 (IEC 62443) Reference Model levels is named correctly?

Available Choices (select all choices that are correct)

- A. Level 3: Operations Management
- B. Level 1: Supervisory Control
- C. Level 4: Process
- D. Level 2: Quality Control

答案: A

解題說明:

The ISA-99/IEC 62443 standards for industrial automation and control systems security categorize network and system components into different levels based on their operational context. The correct name from the provided options for one of these levels is Level 3: Operations Management. This level typically encompasses systems that manage production control systems, including batch management, production scheduling, and overall factory operations. The other levels listed, such as Supervisory Control and Process, refer to different aspects of the system but are not named correctly in the options provided. Level 1 is correctly referred to as

"Basic Control," and Level 4 should be "Business Logistics" instead of "Process."

問題 #79

Which of the following is an element of monitoring and improving a CSMS?

Available Choices (select all choices that are correct)

- A. Increase in staff training and security awareness
- B. Review of system logs and other key data files
- C. Significant changes in identified risk round in periodic reassessments
- D. Restricted access to the industrial control system to an as-needed basis

答案: A,B

解題說明:

Monitoring and improving a Cybersecurity Management System (CSMS) as per ISA/IEC 62443 standards involves several key activities that ensure the system remains effective and responsive to emerging threats.

Two critical elements of this ongoing process are:

* A. Increase in staff training and security awareness: Regular training and increasing security awareness among staff are vital to maintaining a secure operating environment. This proactive measure helps in reducing human error and enhancing the ability to respond effectively to cybersecurity incidents.

* D. Review of system logs and other key data files: Continuous review and analysis of system logs and other relevant data files are essential for detecting, investigating, and responding to potential security incidents. This monitoring helps in identifying anomalies that may indicate a security breach or operational issues needing attention.

問題 #80

What is the name of the missing layer in the Open Systems Interconnection (OSI) model shown below?

- A. User
- B. Control
- C. Transport
- D. Protocol

答案: C

解題說明:

The OSI model defines 7 layers for standardizing communications in network systems. The Transport Layer is responsible for reliable data transfer between end systems, including flow control, error correction, and segmentation. It sits between the Network Layer and the Session Layer.

The correct OSI model from top to bottom is:

Application

Presentation

Session

Transport # Missing layer

Network

Data Link

Physical

"The transport layer provides transparent transfer of data between end users, ensuring complete data transfer."

- ISA/IEC 62443-3-3:2013, Annex A - Communications Stack and Layered Security Concepts Understanding the OSI model is crucial when designing secure industrial networks, as ISA/IEC 62443 advocates for layered defense ("defense in depth") at all levels.

References:

ISA/IEC 62443-3-3:2013 - Annex A

ISA/IEC 62443-1-1:2007 - Section on OSI Reference Model

問題 #81

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