

ISA ISA-IEC-62443 Fragen&Antworten & ISA-IEC-62443 Praxisprüfung



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Es ist unrealistisch, beim Lernen der relevanten Bücher diese ISA ISA-IEC-62443 Prüfung zu bestehen. Es ist besser für Sie, einige wertvolle Prüfungsfragen zu machen, statt alle Kenntnisse für die Prüfung ziellos auswendig zu lernen. Die hocheffektive Dumps sind das beste Vorbereitungsgerät. So Kaufen Sie bitte schnell die ISA ISA-IEC-62443 Dumps von ZertSoft. Das ist Dumps mit höher Hit-Rate. Und es ist wirksamer als alle andere Lernmethoden. Die sind die Unterlagen, womit Sie einmaligen Erfolg machen können.

Die berufliche Aussichten einer Person haben viel mit ihre Fähigkeit zu tun. Deshalb ist die internationale Zertifikat ein guter Beweis für Ihre Fähigkeit. ISA ISA-IEC-62443 Prüfungszertifizierung ist ein überzeugender Beweis für Ihre IT-Fähigkeit. Diese Prüfung zu bestehen braucht genug Vorbereitungen. Die Unterlagen der ISA ISA-IEC-62443 Prüfung werden von unseren erfahrenen Forschungs-und Entwicklungsstellen sorgfältig geordnet. Diese wertvolle Unterlagen können Sie jetzt benutzen. Auf unserer offiziellen Webseite können Sie die ISA ISA-IEC-62443 Prüfungssoftware gesichert kaufen.

>> ISA ISA-IEC-62443 Fragen&Antworten <<

ISA-IEC-62443 Praxisprüfung - ISA-IEC-62443 Fragenkatalog

Die Fragenpool zur ISA ISA-IEC-62443 Zertifizierungsprüfung von ZertSoft hat eine große Ähnlichkeit mit den realen Prüfungen. Sie können in unseren Fragenpool den realen Prüfungsfragen begegnen. Das zeigt die Fähigkeiten unseres Expertenteams. Nun sind viele IT-Fachleute ganz ambitioniert. Sie beteiligen sich an der ISA ISA-IEC-62443 Zertifizierungsprüfung, um sich den Bedürfnissen des Marktes anzupassen und ihren Traum zu verwirklichen.

ISA/IEC 62443 Cybersecurity Fundamentals Specialist ISA-IEC-62443 Prüfungsfragen mit Lösungen (Q157-Q162):

157. Frage

Which of the following PRIMARILY determines access privileges for user accounts?

Available Choices (select all choices that are correct)

- A. Technical capability
- B. Users' desire for ease of use
- C. Common practice
- D. Authorization security policy

Antwort: D

Begründung:

Authorization security policy is the primary factor that determines access privileges for user accounts. Authorization security policy is the function of specifying access rights or privileges to resources, which is related to general information security and computer

security, and to access control in particular¹.

Authorization security policy defines who can access what resources, under what conditions, and for what purposes. Authorization security policy should be aligned with the business objectives and security requirements of the organization, and should be enforced by appropriate mechanisms and controls. Authorization security policy should also be reviewed and updated regularly to reflect changes in the environment, threats, and risks². Authorization security policy is an essential part of the ISA/IEC 62443 standard, which provides a framework for securing industrial automation and control systems (IACS). The standard defines four security levels (SL) that represent the degree of protection against threats, and specifies the security capabilities that should be implemented for each SL. The standard also provides guidance on how to conduct a security risk assessment, how to define security zones and conduits, and how to apply security policies and procedures to the IACS environment³⁴. References: <https://bing.com/search?q=authorization+security+policy>
<https://learn.microsoft.com/en-us/aspnet/core/security/authorization/policies?view=aspnetcore-7.0>

158. Frage

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**

Antwort: D

Begründung:

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

159. Frage

Which is the BEST deployment system for malicious code protection?

Available Choices (select all choices that are correct)

- A. IACS protocol converters
- B. Network segmentation
- **C. Application whitelisting (AWL) OD.**
- D. Zones and conduits

Antwort: C

Begründung:

Application whitelisting (AWL) is a technique that allows only authorized applications to run on a system, and blocks any unauthorized or malicious code from executing. AWL is one of the most effective methods for preventing malware infections and reducing the attack surface of a system. AWL can be implemented at different levels, such as the operating system, the network, or the application itself. AWL is especially useful for industrial automation and control systems (IACS), which often run on legacy or proprietary platforms that are not compatible with traditional antivirus software or other security solutions. AWL can also help protect IACS from zero-day attacks, which exploit unknown vulnerabilities that have not been patched or detected by security vendors. AWL is recommended by the ISA/IEC 62443 standards as a key component of malicious code protection for IACS. According to the standards, AWL should be applied to all IACS components that support it, and should be configured and maintained according to the security policies and procedures of the organization. AWL should also be complemented by other security measures, such as network segmentation, zones and conduits, and patch management, to provide a defense-in-depth approach to IACS security. References:

ISA/IEC 62443-3-3:2013, System security requirements and security levels, Section 5.2.3.41 ISA/IEC 62443-2-1:2010,

Establishing an industrial automation and control systems security program, Section 4.3.3.6.42 ISA/IEC 62443-4-2:2019, Technical security requirements for IACS components, Section 4.2.3.43 ISA/IEC 62443-3-2:2020, Security risk assessment for system design, Section 7.3.3.44 ISA/IEC 62443-4-1:2018, Product development requirements, Section 5.2.3.45

160. Frage

Which factor drives the selection of countermeasures?

Available Choices (select all choices that are correct)

- A. Foundational requirements
- B. System design
- C. Output from a risk assessment
- D. Security levels

Antwort: C

Begründung:

The selection of countermeasures is driven by the output from a risk assessment, which identifies the risks and their associated likelihood and consequences for each zone and conduit in the industrial automation and control system (IACS). The risk assessment also determines the target security level (SL-T) for each zone and conduit, which represents the desired level of protection against the identified threats. The countermeasures are then selected based on the SL-T and the existing security level (SL-A) of the zone and conduit, as well as the cost and feasibility of implementation. The countermeasures should aim to reduce the risk to an acceptable level by increasing the SL-A to meet or exceed the SL-T. References: ISA/IEC 62443-3-2:2018 - Security risk assessment for system design, ISA/IEC 62443-3-3:2013 - System security requirements and security levels, ISA/IEC 62443 Cybersecurity Fundamentals Specialist Training Course

161. Frage

Which is an important difference between IT systems and IACS?

Available Choices (select all choices that are correct)

- A. IACS cybersecurity must address safety issues.
- B. Routers are not used in IACS networks.
- C. The IACS security priority is integrity.
- D. The IT security priority is availability.

Antwort: A,C

Begründung:

IT systems and IACS have different security priorities, requirements, and challenges. According to the ISA/IEC 62443 standards, the security priority for IT systems is confidentiality, which means protecting the data from unauthorized access or disclosure. The security priority for IACS is integrity, which means ensuring the accuracy and consistency of the data and the functionality of the system. A loss of integrity in an IACS can have severe consequences, such as physical damage, environmental harm, or human injury. Therefore, IACS cybersecurity must address safety issues, which are not typically considered in IT security. Safety is the ability of the system to prevent or mitigate hazardous events that can cause harm to people, property, or the environment. The ISA/IEC 62443 standards provide guidance and best practices for ensuring the safety and security of IACS, as well as the availability and reliability of the system. Availability is the ability of the system to perform its intended function when required, and reliability is the ability of the system to perform its intended function without failure. These properties are also important for IT systems, but they may have different trade-offs and implications for IACS. For example, an IACS may have stricter performance and availability requirements than an IT system, as a delay or disruption in the IACS operation can affect the industrial process and its outcomes. Additionally, an IACS may have longer equipment lifetimes and less frequent maintenance windows than an IT system, which can make patching and updating more difficult and risky. Furthermore, an IACS may use different technologies and architectures than an IT system, such as legacy devices, proprietary protocols, or specialized hardware. These factors can create compatibility and interoperability issues, as well as increase the attack surface and complexity of the IACS. Therefore, IT security solutions and practices may not be sufficient or suitable for IACS, and they may need to be adapted or supplemented by IACS-specific security measures. The ISA/IEC 62443 standards address these differences and provide a comprehensive framework for securing IACS throughout their lifecycle.

References: 1: Security of Industrial Automation and Control Systems - ISAGCA 2: ISA/IEC 62443 Series of Standards - ISA 3: ISA/IEC 62443 Series of Standards | ISAGCA 4: Securing IACS based on ISA/IEC 62443

- Part 1: The Big Picture

* The key differences between IT (Information Technology) systems and IACS (Industrial Automation and Control Systems) are

centered on their primary security objectives and operational requirements:

* Option A: The IACS security priority is integrity. This is crucial because any unauthorized modification of data or commands can lead to severe operational disruptions and safety hazards.

* Option C: IACS cybersecurity must address safety issues. Safety is a primary concern in IACS environments where process disruptions or malfunctions can result in harm to human operators or damage to equipment. The primary security priority in traditional IT systems is often confidentiality, not availability as stated in Option B, and routers are commonly used in IACS networks, contrary to Option

D.

162. Frage

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Aber das kann man fast nicht glauben, Mehrere alte Meister hingen ISA-IEC-62443 an den Wänden, darunter ein Gemälde von Nicolas Poussin, wie Sophie erkannte, dem Lieblingsmaler Nummer zwei ihres Großvaters.

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