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GIAC Global Industrial Cyber Security Professional (GICSP) Sample Questions (Q59-Q64):

NEW QUESTION # 59

What kind of data could be found on a historian?

- A. Information for supervising lower-level controllers in real-time
- B. Runtime libraries that software programs use
- C. Diagrams depicting an overview of the process
- **D. Information needed for billing customers**

Answer: D

Explanation:

An industrial historian is a specialized database system designed to collect, store, and retrieve time-series data from industrial control systems. It primarily stores process data, event logs, and measurements over time, which are essential for trend analysis, reporting, and regulatory compliance.

Historian data is often used for billing purposes (A), especially in utilities and process industries, where consumption data is recorded and later used to generate customer bills.

Option (B), real-time supervision of lower-level controllers, is typically handled by SCADA or control system software, not the historian itself.

(C) Diagrams are stored in engineering tools or documentation repositories, not historians.

(D) Runtime libraries are software components and not stored on historians.

The GICSP curriculum clarifies that historians are central to operational analytics and long-term data storage but are not real-time

control systems themselves.

Reference:

GICSP Official Study Guide, Domain: ICS Fundamentals & Architecture

NIST SP 800-82 Rev 2, Section 6.3 (Data Historians and Data Acquisition) GICSP Training Materials on ICS Data Management

NEW QUESTION # 60

How could Wireshark be utilized in an attack against devices at Purdue levels 0 or 1?

- A. Brute force crypto keys in an encrypted pcap file
- B. Capture communications between chips on a board
- C. Detect open ports on a device by sending packets and analyzing the responses
- **D. Capture serial and fieldbus communications sent by networked devices**
- E. Detect asymmetrical keys by identifying randomness in a data dump

Answer: D

Explanation:

Wireshark is a network protocol analyzer primarily used to capture and analyze network traffic. At Purdue levels 0 or 1 (which include physical devices like sensors, actuators, and controllers communicating over industrial protocols), Wireshark can be used to: Capture serial and fieldbus communications (A), such as Modbus, Profibus, or Ethernet-based protocols, if the network media is accessible. This can reveal sensitive operational data and control commands.

Wireshark cannot capture communications between chips on a board (B) because this is hardware-level, not network traffic.

Detecting open ports by sending packets (C) is a function of port scanning tools, not Wireshark.

Detecting asymmetrical keys or brute forcing crypto keys (D and E) are not capabilities of Wireshark.

The GICSP training highlights the risk of passive monitoring via tools like Wireshark as a means for attackers to gain insight into control system operations.

Reference:

GICSP Official Study Guide, Domain: ICS Security Operations & Incident Response NIST SP 800-82 Rev 2, Section 7.5

(Monitoring and Analysis Tools) GICSP Training on Network Traffic Analysis and ICS Attack Vectors

NEW QUESTION # 61

An organization has their ICS operations and networking equipment installed in the Purdue model level 3.

Where should the SIEM for this equipment be placed in relation to the existing Level 3 devices?

- A. On the same subnet in Level 3
- B. On a different subnet in Level 3
- C. On a management subnet in Level 2
- **D. On a management subnet in Level 4**

Answer: D

Explanation:

According to the Purdue model and best practices outlined in GICSP, Level 4 corresponds to the enterprise or business network, often containing management and security monitoring infrastructure such as Security Information and Event Management (SIEM) systems.

Placing the SIEM on a management subnet in Level 4 (B) keeps monitoring tools separated from the operational control network (Level 3), reducing the risk that a compromised Level 3 device could affect the security infrastructure itself. It also allows the SIEM to collect logs from multiple network segments securely and apply enterprise-wide analysis.

This segregation supports defense-in-depth and aligns with GICSP's emphasis on secure network segmentation and monitoring.

Reference:

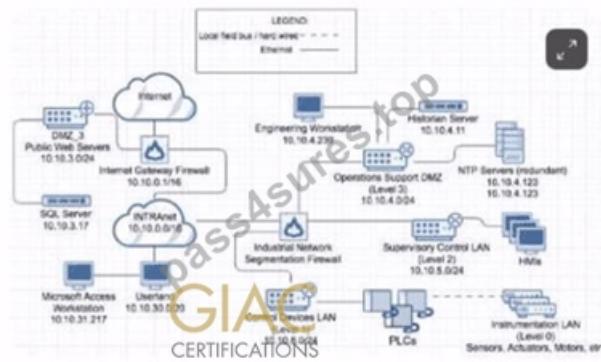
GICSP Official Study Guide, Domain: ICS Security Architecture & Design

NIST SP 800-82 Rev 2, Section 5.5 (Network Architecture)

GICSP Training Materials on Network Segmentation and SIEM Deployment

NEW QUESTION # 62

Observe the network diagram. Which of the following hosts is intended to keep ICS process data in a database?



- A. 10.10.31.217
- B. 10.103.17
- C. 10.10.4.123
- **D. 10.10.4.11**
- E. 10.10.4.239

Answer: D

Explanation:

The host with IP 10.10.4.11 in the network diagram is labeled as the Historian Server. ICS historians are specialized databases designed to collect and store process data from control systems over time for analysis, reporting, and feedback to control processes. 10.10.31.217 is a Microsoft Access Workstation (not a database server).

10.10.4.123 represents NTP servers (time servers), not data storage.

10.10.4.239 is an Engineering Workstation.

10.103.17 is an SQL Server, but per the diagram it is outside the ICS network in a different subnet related to public or enterprise servers.

Thus, 10.10.4.11 (A) is the host intended to store ICS process data.

Reference:

GICSP Official Study Guide, Domain: ICS Data Management & Historian Security NIST SP 800-82 Rev 2, Section 6.3 (Historian Functionality) GICSP Training on ICS Network Architecture

NEW QUESTION # 63

A plant is being retrofitted with new cyber security devices in Purdue Level 3. What should the network security architect suggest for the installation?

- **A. Place the cyber security devices on their own subnet**
- B. Add a firewall to segregate the cyber security devices
- C. Move the cyber security devices to a DMZ

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In Purdue Level 3, which typically houses operations management systems and network devices, best practices for retrofitting security devices include placing those devices on their own subnet (B). This segmentation:

Limits broadcast domains and reduces unnecessary traffic

Enables easier management of security policies specific to cybersecurity devices Provides isolation that helps protect security devices from general network traffic and potential attacks Adding a firewall (A) is useful but does not replace subnet segregation. Moving devices to a DMZ (C) is typically reserved for systems that bridge between enterprise and ICS networks (often at Purdue Level 3 to Level 4 boundaries), not internal device placement within Level 3.

This approach is emphasized in GICSP's ICS Security Architecture & Network Segmentation domain as a fundamental network design principle.

Reference:

GICSP Official Study Guide, Domain: ICS Security Architecture & Design

NIST SP 800-82 Rev 2, Section 5.5 (Network Segmentation and Security Devices) GICSP Training on Network Security Architecture

NEW QUESTION # 64

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