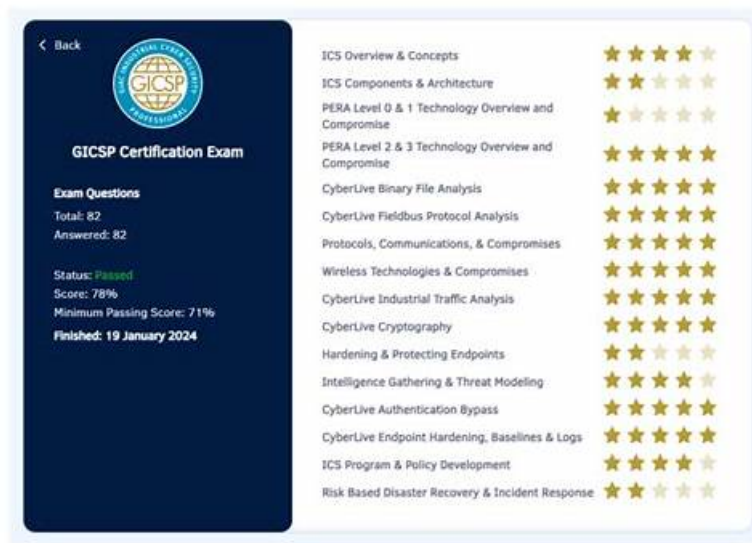# Detailed GICSP Answers - GICSP Hot Questions

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GIAC Global Industrial Cyber Security Professional (GICSP) Sample Questions (Q23-Q28):

NEW QUESTION # 23
For a SQL injection login authentication bypass to work on a website, it will contain a username comparison that the database finds to be true. What else is required for the bypass to work?

- A. The database's comment characters
- B. Two pipe characters (||)
- C. An unencrypted login page
- D. The correct password

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
SQL injection attacks often exploit the ability to inject SQL code into input fields to alter the logic of database queries. To bypass

authentication, attackers often:

Use database comment characters (B) (e.g., -- in many SQL dialects) to ignore the rest of the original query, effectively bypassing the password check.

An unencrypted login page (A) is unrelated to the SQL injection logic.

Two pipe characters (||) (C) are logical OR operators in some databases but not universally required.

The correct password (D) is not required for bypass in SQL injection scenarios.

GICSP training covers SQL injection and defensive coding practices as common ICS web application vulnerabilities.

Reference:

GICSP Official Study Guide, Domain: ICS Security Operations & Incident Response OWASP Top 10 and SQL Injection Resources GICSP Training on Web Security Vulnerabilities

NEW QUESTION # 24

What information can be found by dumping data at rest from a Purdue Enterprise Reference Architecture level 0/1 device?

- A. Frequency-hopping algorithm that the RF chip will use
- B. Firmware on read-protected chip
- C. Static cryptographic keys

Answer: C

Explanation:

Level 0 and Level 1 devices in the Purdue model include sensors, actuators, and controllers such as PLCs.

Dumping data at rest from these devices often reveals static cryptographic keys (C) stored within device memory or configuration files.

Firmware on read-protected chips (A) is generally inaccessible without specialized hardware attacks.

Frequency-hopping algorithms (B) pertain to wireless devices and are typically secured and not directly stored in the general memory dump.

GICSP stresses the risk of key compromise from device data extraction as it can enable unauthorized control or decryption of communications.

Reference:

GICSP Official Study Guide, Domain: ICS Security Operations & Incident Response Purdue Model and ICS Device Security GICSP Training on Device-Level Security Threats

NEW QUESTION # 25

What is a characteristic of the Ladder Diagram approach for programming controllers?

- A. Based on circuit diagrams of relay logic hardware and operates on rules rather than procedures
- B. Uses steps to execute commands and transitions to wait for conditions to move forward
- C. Is similar to a low level programming language like assembly
- D. May be similar to high level computer programming languages like C

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Ladder Diagram (LD) programming is a graphical language used for PLC programming that visually resembles circuit diagrams of relay logic hardware (D). It is rule-based and designed to be intuitive for electricians and engineers familiar with relay control systems.

It is not similar to low-level assembly (A) or high-level languages like C (B).

Option (C) describes Sequential Function Charts (SFC), which use steps and transitions.

GICSP emphasizes Ladder Diagrams as a foundational method in industrial control logic design.

Reference:

GICSP Official Study Guide, Domain: ICS Fundamentals & Architecture

IEC 61131-3 Standard on PLC Programming Languages

GICSP Training on PLC Programming Methods

NEW QUESTION # 26

How arc general purpose Programmable Logic Controllers (PLC) different than smart field devices?

- A. Programmable Logic Controllers have a more limited purpose and function
- B. Smart field devices cannot be controlled centrally from a management server
- C. Smart field devices contain their own control logic that cannot be changed
- D. Programmable Logic Controllers are usually microcontroller-based

Answer: A

Explanation:
General-purpose PLCs are designed to perform a wide range of control tasks, programmed to execute complex control logic and interact with multiple I/O points, making them versatile controllers in industrial automation.
In contrast, smart field devices (like smart transmitters or actuators) are typically dedicated to specific measurement or control functions and may have embedded intelligence for self-calibration, diagnostics, or simple control, but with a more limited purpose and function (C).
(A) is incorrect because smart field devices often can be managed remotely.
(B) is true but not a differentiating functional characteristic.
(D) is incorrect; smart field devices often have configurable logic or settings.
GICSP training differentiates these device classes to tailor cybersecurity controls effectively.
Reference:
GICSP Official Study Guide, Domain: ICS Fundamentals & Architecture
NIST SP 800-82 Rev 2, Section 3 (ICS Components and Control Devices)
GICSP Training on ICS Device Types

NEW QUESTION # 27
What can be configured on the router so that it can most effectively implement and enforce zones for the shown subnets?

- A. Access control lists
- B. 802. 1x protocol
- C. MAC-based port security
- D. Secure Shell

Answer: A

Explanation:
The diagram shows multiple subnets/zones (Levels 0-3) connected via routers and switches. To enforce traffic flow policies between these zones/subnets, the router should implement Access Control Lists (ACLs) (B).
ACLs can:
Filter traffic between subnets based on IP addresses, ports, and protocols Enforce security boundaries as per ICS segmentation principles (A) MAC-based port security controls device-level access but is less effective for inter-subnet traffic control.
(C) Secure Shell (SSH) is for secure device management, not traffic control.
(D) 802.1x provides port-based network access control but is less relevant for routing traffic between subnets.
GICSP highlights ACLs as fundamental tools for network segmentation enforcement in ICS.
Reference:
GICSP Official Study Guide, Domain: ICS Security Architecture & Design
NIST SP 800-82 Rev 2, Section 5.5 (Network Segmentation and Filtering)
GICSP Training on Network Security Controls

NEW QUESTION # 28
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