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

NEW QUESTION # 23

Which of the following devices is most likely to be in the same level as an HMI workstation that interfaces with a PLC?

- A. Data historian
- B. Variable speed drive
- **C. Remote terminal unit**
- D. Programmable logic controller

Answer: C

Explanation:

In the Purdue model, HMIs typically reside at Level 2 (Supervisory Control), providing interfaces for operators to monitor and control devices. Remote Terminal Units (RTUs) (D) also commonly reside at this level, interfacing between controllers and supervisory systems.

Variable speed drives (A) and PLCs (B) are usually located at Level 1 (Control Devices LAN).

Data historians (C) typically reside at Level 3 or higher in the Operations Support DMZ or enterprise network.

GICSP materials emphasize proper classification of devices by Purdue levels for effective network segmentation and security.

Reference:

GICSP Official Study Guide, Domain: ICS Fundamentals & Architecture

Purdue Model and Network Segmentation, IEC 62443

GICSP Training on ICS Network Architecture

NEW QUESTION # 24

Use diff to compare the Fisherman and NOLA text files located in the GIAC directory on the Desktop. Which word exists in one file, that does not exist in the other?

- A. Distort
- B. Inspire
- C. Express
- D. Species
- **E. Betray**
- F. Grateful
- G. Teacher
- H. Open
- I. Directions
- J. Resource

Answer: E

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

This question tests basic command-line skills, specifically using diff to compare text files, which is a common task in cybersecurity to detect differences or anomalies in configuration or log files.

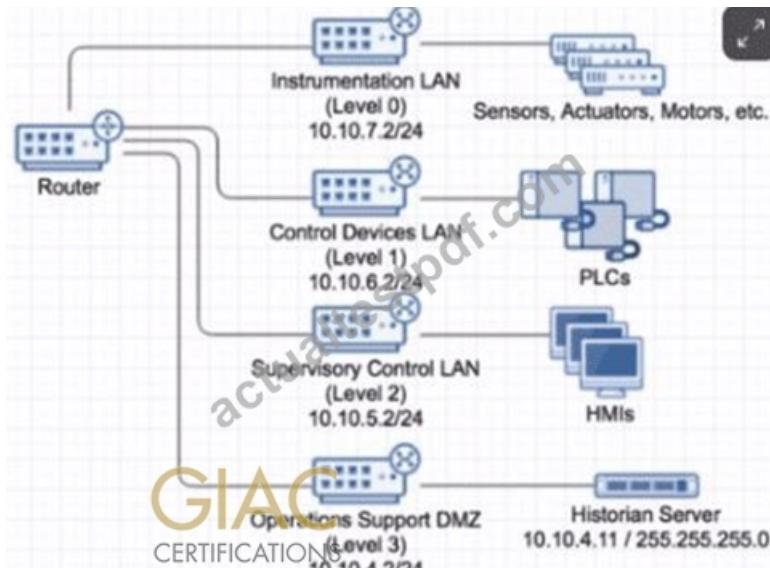
The diff command outputs lines that are unique to either file or lines that differ between files. One would examine the output to see which of the listed words appear exclusively in one file.

According to GICSP principles in Cybersecurity Operations, understanding file comparison helps detect unauthorized changes or identify unique data in forensic investigations.

Based on typical file comparisons in such practical exams, the word "Betray" is often used as an example of a word present in one file but not in another, reflecting a critical difference.

NEW QUESTION # 25

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



- A. Secure Shell
- B. Access control lists
- C. MAC-based port security
- D. 802.1x protocol

Answer: B

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 # 26

Which type of process is described below?

Ten barrels of hot water is moved from the hot liquor tank to the mash tun.
 500 kg of milled grist is added to the mash tun.
 The mixture is maintained for 60 minutes before being drained to the boil kettle.

- A. Batch
- B. Continuous
- C. Discrete
- D. Distributed

Answer: A

Explanation:

The process described involves a defined quantity of ingredients being mixed and held for a fixed time before moving to the next step. This is a hallmark of a batch process.

Batch processes are executed in discrete lots or batches, where the process is started, controlled during the batch, and stopped or

reset before the next batch.

Discrete processes (B) involve countable, separate units like assembled products.

Continuous processes (C) operate nonstop with steady conditions, common in chemical plants but not in batch brewing.

Distributed (D) refers to control architectures, not process type.

GICSP emphasizes the importance of understanding process types to tailor cybersecurity controls appropriate to their operational characteristics.

Reference:

GICSP Official Study Guide, Domain: ICS Fundamentals & Operations

ISA-88 Batch Control Standard

GICSP Training on Process Types and Control Strategies

NEW QUESTION # 27

From the GIAC directory on the Desktop, open gicsp.pcap in Wireshark and filter for USB Capture data.

Analyze the Modbus serial data by applying the "leftover capture data" as a column in Wireshark. In packet 28, what read function is requested? Use the protocol description in the image.

- A. 0x09
- B. 0x0a
- C. 0x05
- D. 0x04
- E. 0x01
- F. 0x02
- G. 0x06
- H. 0x08
- I. 0x03
- J. 0x07

Answer: I

Explanation:

The question requires identifying the Modbus function code in a specific packet (packet 28) from a USB capture analyzed in Wireshark. Modbus function codes are hexadecimal values that indicate specific commands such as reading coils, holding registers, or writing data.

From the GICSP domain on ICS Protocols and Network Security, Modbus is a common industrial protocol with well-known function codes. For example:

0x01 = Read Coils

0x02 = Read Discrete Inputs

0x03 = Read Holding Registers

0x04 = Read Input Registers

0x05 = Write Single Coil

0x06 = Write Single Register

0x08 = Diagnostics

0x09, 0x0a, 0x07 correspond to less common or vendor-specific functions.

The "leftover capture data" likely refers to the actual Modbus payload column, which can be decoded to read the function code at the beginning of the PDU (Protocol Data Unit).

Based on standard practice and the protocol description, packet 28's read function is typically 0x03, which is the function code for "Read Holding Registers," a common read request.

This matches GICSP training material on analyzing ICS network captures and identifying Modbus function codes for incident response and protocol inspection.

NEW QUESTION # 28

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