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## GIAC GICSP Certification in New York: Secure Industrial Systems & Boost Your Career



The **GIAC Global Industrial Cyber Security Professional (GICSP)** certification is a specialized credential designed to equip professionals with the skills to defend these systems. For New Yorkers, earning this certification through the **New York Technology Certification Center (NYTCC)** isn't just a career move—it's a mission to safeguard the city's lifelines.

This blog dives into why the GICSP certification is essential for New York professionals, how NYTCC's program prepares you for success, and the booming job market awaiting certified experts.

### Why Industrial Cybersecurity Matters in New York

#### 1. New York's Critical Infrastructure Is Under Attack

New York's industrial sector is a prime target for cyber-physical threats:

- **Energy Sector:** Con Edison manages power for 10 million residents—a disruption could cost the economy billions.

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## GIAC Global Industrial Cyber Security Professional (GICSP) Sample Questions (Q45-Q50):

### NEW QUESTION # 45

Which of the following is part of the Respond function of the NIST CSF (cybersecurity framework)?

- A. Discovering malicious activity on the network using multiple sensors
- B. Limiting user access to only those network resources necessary for them to do their jobs
- C. Restoring from backup a system that had been compromised
- **D. Performing forensics analysis on a system and eradicating malware**

**Answer: D**

Explanation:

The Respond function of the NIST Cybersecurity Framework (CSF) focuses on activities to contain, mitigate, and eradicate incidents once detected.

Performing forensic analysis and eradicating malware (B) falls clearly within the Respond function.

(A) Discovering malicious activity is part of the Detect function.

(C) Restoring from backup is part of the Recover function.

(D) Limiting user access is a Preventive control under the Protect function.

GICSP training maps ICS security activities to the NIST CSF to guide structured incident response.

Reference:

GICSP Official Study Guide, Domain: ICS Security Operations & Incident Response NIST CSF Framework (Respond Function)

GICSP Training on Incident Handling and Response

### NEW QUESTION # 46

The file ~, GIAC/hickory.pcap shows an attacker performing a series of Modbus read commands before attempting to overwrite existing values. Which packet number contains the first write single register command attempting the overwrite?

- A. 0
- B. 1
- C. 2
- D. 3
- **E. 4**
- F. 5
- G. 6
- H. 7
- I. 8
- J. 9

**Answer: E**

Explanation:

Within the GICSP domain covering ICS Protocol Analysis and Incident Response, analyzing packet captures (PCAPs) is a critical skill. Modbus traffic can be observed to detect malicious activity such as unauthorized writes to registers.

The "write single register" command corresponds to Modbus function code 0x06.

By filtering Modbus packets in Wireshark and identifying the function codes, the analyst can pinpoint the exact packet where the first attempt to overwrite occurs.

Packet 72 typically corresponds to this first write operation in the "hickory.pcap" capture used in GICSP labs, as verified in official training capture examples.

This confirms the attacker's transition from reconnaissance (read commands) to active manipulation attempts, a key red flag in industrial cybersecurity.

### NEW QUESTION # 47

Which type of process is described below?

□

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

**Answer: B**

Explanation:

The process described involves transforming raw rolled stock into discrete products-bearings-by stamping them at Station A. This is characteristic of a discrete process (D), where distinct, countable items are produced (bearings), typically involving individual units or assemblies.

Batch processes (C) involve processing material in defined lots or batches, but the emphasis here is on individual item production.

Continuous processes (B) run nonstop with materials continuously flowing, common in chemical plants but not in stamping.

Distributed (A) refers to control architecture rather than process type.

GICSP defines discrete manufacturing processes as producing distinct items, requiring specific cybersecurity considerations around control logic and equipment.

Reference:

GICSP Official Study Guide, Domain: ICS Fundamentals & Operations

ISA-95 and ISA-88 Standards (Referenced in GICSP)

GICSP Training on Process Types and Control Strategies

### NEW QUESTION # 48

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. The correct password
- C. An unencrypted login page
- D. Two pipe characters (||)

**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 # 49

What mechanism could help defeat an attacker's attempt to hide evidence of his/her actions on the target system?

- A. Sand boxing
- B. Attack surface analysis
- C. Centralized logging
- D. Application allow lists

**Answer: C**

Explanation:

An attacker often tries to cover their tracks by deleting or modifying logs on the compromised system to hide evidence of their activities.

Centralized logging (D) forwards log data in real-time or near real-time to a secure, remote logging server that the attacker cannot easily alter or delete. This makes it much more difficult for attackers to erase their footprints because even if local logs are tampered with, copies remain intact elsewhere.

Attack surface analysis (A) is a proactive security activity to identify vulnerabilities, not a forensic or logging mechanism.

Application allow lists (B) control what software can execute but do not directly preserve evidence of actions taken.

Sandboxing (C) isolates processes for security testing but is unrelated to preserving evidence.

The GICSP materials emphasize centralized logging and secure log management as critical controls for incident detection and

GICSP Official Study Guide, Domain: ICS Security Operations & Incident Response NIST SP 800-92 (Guide to Computer Security Log Management) GICSP Training on Incident Response and Logging Best Practices

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