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API 510 Exam Questions and Answers 100% Pass

NDE examinations must be scheduled at intervals that consider the
Probability of the NDE method to identify the damage

What is the transition temperature of a metal?
The temp at which the material fracture code changes from ductile to brittle

A primary goal of API 510 internal inspection is to
Find damage that cannot be found by monitoring external CMLs

When conducting a hydrostatic pressure test special attention should be given when testing low alloy steels especially 2 1/4 cr because
They may be prone to temper embrittlement

What is the maximum chloride concentration allowed for water or steam when hydro testing 300 series
50 ppm

For austenitic stainless steel the susceptible temperature range of CUI is
140 degrees and 400 degrees

How many systems and procedures must be documented and implemented per API 510 in a owner user inspection repair management system for pressure vessels and pressure relief devices
19

The consequence of a release is dependent on
The type and amount of process fluid contained in the equipment

The surface at a weld with a joint factor the 1.0 is corroded. The calculation to determine if the thickness at the corroded are governs the allowable working pressure should be
The thickness of the surface of the weld includes 1" or twice the minimum thickness on either side of the weld whichever is greater

A methodology whereby flaws and conditions contained within an equipment item are assessed in order to determine the integrity of the equipment for continued service is referred to as
Fitness for service evaluation

What is a pressure vessel engineer responsible for
Activities involving design engineering review analysis or evaluation of vessels

When can pressure tests of vessel components be performed in lieu of entire vessel testing
After consultations with an engineer

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AI CERTs AI+ NetworkExamination Sample Questions (Q18-Q23):

NEW QUESTION # 18
(In a hybrid topology, why is the combination of multiple topologies beneficial?)

- A. Requires fewer cables and connections for all devices.
- B. Ensures uniformity and ease of data transmission.
- C. Leverages strengths while minimizing weaknesses of each topology.
- D. Simplifies network management and reduces costs.

Answer: C

Explanation:
A hybrid topology is beneficial because it leverages the strengths of multiple network topologies while minimizing their individual weaknesses. AI+ Network foundational documentation explains that no single topology is ideal for all scenarios. For example, star topologies offer easy fault isolation, mesh topologies provide high redundancy, and bus or ring topologies reduce cabling costs. By combining these designs, organizations can tailor their network architecture to specific performance, scalability, and reliability requirements. Hybrid topologies allow critical systems to benefit from redundancy and high availability while less critical areas can use simpler, cost-effective designs. This flexibility is especially important in enterprise environments with diverse workloads and operational needs.
Options such as uniformity or reduced cabling are not guaranteed in hybrid designs. Instead, AI+ Network materials emphasize adaptability and resilience as the core advantages of hybrid topology implementations.

NEW QUESTION # 19
(What is the function of the ping command in networking labs?)

- A. To view the routing table of a network device.
- B. To test connectivity between two devices on a network.
- C. To capture real-time network traffic for analysis.
- D. To configure IP addresses on router interfaces.

Answer: B

Explanation:
The primary function of the ping command in networking labs is to test connectivity between two devices on a network. AI+ Network lab documentation identifies ping as a fundamental diagnostic tool used to verify Layer 3 communication using ICMP (Internet Control Message Protocol).
Ping sends ICMP Echo Request packets to a destination device and waits for Echo Reply messages. A successful response confirms that IP addressing, routing, and basic network connectivity are functioning correctly. This makes ping the first verification step after configuring interfaces, routes, or network links.
Ping does not configure IP addresses, display routing tables, or capture traffic. Those tasks are handled by commands such as ip address, show ip route, or packet analyzers like Wireshark. AI+ Network training consistently emphasizes ping as an essential troubleshooting command in both physical and virtual lab environments.

NEW QUESTION # 20
(Scenario: A multinational corporation faces an issue where employees working remotely often connect to corporate resources using unsecured devices. Despite enforcing strong password policies, they still encounter breaches due to compromised endpoints. The security team needs a strategy to ensure only compliant devices can access sensitive resources while minimizing user disruption.
Question: What approach should the corporation adopt to resolve this issue?)

- A. Implement Zero Trust Architecture to verify user and device compliance.
- B. Restrict remote access entirely to prevent breaches from unsecured devices.
- C. Enforce stricter password policies to enhance user authentication security.
- D. Deploy network segmentation to isolate critical resources from remote access.

Answer: A

Explanation:
Implementing a Zero Trust Architecture (ZTA) is the most effective approach for securing access from remote and potentially unsecured devices. AI+ Network security documentation explains that Zero Trust operates on the principle of "never trust, always verify," requiring continuous validation of both user identity and device posture before granting access.
Unlike traditional perimeter-based security, Zero Trust evaluates device compliance factors such as operating system health, patch status, and endpoint security controls. Access is granted dynamically and contextually, minimizing disruption while significantly reducing risk. Even authenticated users are restricted to least- privilege access.
Stricter passwords alone do not address compromised endpoints, and completely restricting remote access harms productivity. Network segmentation helps limit damage but does not verify endpoint integrity. AI+ Network frameworks clearly identify Zero Trust as the preferred model for modern, distributed workforces.

NEW QUESTION # 21
(Why is GNS3 considered superior for advanced network emulation compared to simpler simulators?)

- A. It requires minimal system resources for complex scenarios.
- B. It focuses on simulating Cisco devices.
- C. It supports real operating systems for realistic network behavior.
- D. It provides a pre-configured environment for basic networking tasks.

Answer: C

Explanation:
GNS3 is considered superior for advanced network emulation because it supports real network operating systems, providing highly realistic network behavior. According to AI+ Network lab documentation, GNS3 allows engineers to run actual router and switch images, including Cisco IOS, IOS-XE, JunOS, and Linux- based systems, rather than relying on simplified simulations.
This capability enables accurate testing of routing protocols, security features, automation scripts, and failure scenarios exactly as they would behave in production environments. Unlike basic simulators, GNS3 does not abstract protocol behavior, making it ideal for advanced troubleshooting, certification labs, and enterprise network design validation.
While GNS3 can simulate Cisco devices, it is not limited to them. It also requires more system resources, not fewer, due to its realism. Pre-configured environments are typically associated with beginner tools, whereas AI+ Network training emphasizes GNS3 for advanced, real-world emulation and hands-on skill development.

NEW QUESTION # 22
(Scenario: A multinational corporation with offices in multiple countries is experiencing significant delays in data processing due to the centralized routing of all traffic to a single data center. The company wants to minimize latency and improve real-time processing capabilities while ensuring that data remains secure within the local regions.
Question: What strategy should they adopt to address these challenges?)

- A. Implement edge computing to process data closer to its origin and reduce latency.
- B. Deploy a single VNET to handle all global traffic centrally.
- C. Consolidate traffic into fewer subnets using VLANs for simplicity.
- D. Use a hybrid cloud setup to distribute traffic across multiple public and private networks.

Answer: A

Explanation:
Implementing edge computing is the most effective strategy to reduce latency and enhance real-time data processing in geographically distributed environments. AI+ Network documentation highlights edge computing as a modern architectural approach where data is processed closer to its source rather than being sent to a centralized data center. This significantly reduces transmission delays, which is critical for real-time analytics, collaboration tools, and latency-sensitive applications.
For multinational organizations, edge computing enablesregional data locality, ensuring that sensitive data remains within local jurisdictions, supporting regulatory compliance and security requirements. By processing data at or near regional offices, the organization reduces reliance on long-haul WAN links, minimizing congestion and improving application responsiveness.
Options such as centralized VNETs or VLAN consolidation do not address latency issues and may worsen bottlenecks. While hybrid cloud improves flexibility, it does not inherently solve real-time processing delays unless paired with edge capabilities. AI+ Network trends clearly identify edge computing as a foundational technology for distributed enterprises seeking performance, resilience, and compliance.

NEW QUESTION # 23
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