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AIChE CCPS Process Safety Professional Certification Sample Questions (Q71-Q76):

NEW QUESTION # 71

Austenitic stainless steels are typically susceptible to which of the following corrosion mechanisms specifically attributed to chloride exposure? (Select all that apply)

- A. Galvanic corrosion
- B. Uniform corrosion
- C. Pitting corrosion
- D. Stress corrosion cracking

Answer: C,D

Explanation:

The correct answers are A (Stress Corrosion Cracking) and C (Pitting Corrosion) because both are well-known chloride-induced damage mechanisms affecting austenitic stainless steels, as emphasized in CCPS Mechanical Integrity guidance. Chloride ions are particularly aggressive toward the passive oxide layer that protects stainless steel. When this protective film is locally broken down, pitting corrosion occurs, leading to highly localized attack that can penetrate deeply while leaving most of the surface intact. This makes detection difficult and increases the likelihood of sudden failure.

Additionally, chloride stress corrosion cracking (SCC) occurs when tensile stress (residual or applied), a susceptible material (such as austenitic stainless steel), and a corrosive chloride environment are present simultaneously. This mechanism can lead to brittle, catastrophic cracking with little prior warning, which is why CCPS highlights it as a critical degradation mechanism in process equipment.

Galvanic corrosion (B) requires two dissimilar metals electrically connected in an electrolyte and is not specifically caused by chloride exposure alone. Uniform corrosion (D) is a general material loss across the surface and is not the primary concern for stainless steels in chloride environments, where localized attack dominates.

Proper Mechanical Integrity programs per CCPS require identification of such damage mechanisms, material selection, inspection strategies, and monitoring to prevent unexpected failures.

NEW QUESTION # 72

What are some characteristics of an effective Management of Change system: (select all that apply)

- A. Requires the proper mix of expertise to evaluate the proposed change
- B. Driven by quality assurance considerations
- C. Identifies necessary modifications to Risk Based Process Safety element work activities prompted by the change
- D. Facilitates implementation of appropriate risk controls
- E. Develops recommendations that will eliminate process safety incidents

Answer: A,C,D

Explanation:

The correct answers are B, C, and D because they reflect the core functional expectations of an effective Management of Change (MOC) system as defined by CCPS.

Option B is correct because MOC must ensure that appropriate risk controls are identified and implemented before a change is executed. This includes evaluating hazards and ensuring safeguards are in place to prevent incidents.

Option C is also correct because changes often impact multiple RBPS elements (e.g., procedures, training, mechanical integrity), and an effective MOC system ensures that all affected work processes are updated accordingly.

Option D is essential because MOC requires involvement from qualified personnel across disciplines (engineering, operations, safety) to properly evaluate technical and operational impacts of the change.

Option A is incorrect because while MOC contributes to incident prevention, it does not guarantee elimination of all incidents.

Option E is incorrect because MOC is primarily risk-based and safety-driven, not governed by general quality assurance considerations.

CCPS emphasizes that effective MOC systems are systematic, multidisciplinary, and risk-focused, ensuring that all changes are thoroughly evaluated and safely implemented.

NEW QUESTION # 73

Which one of the following characteristics describes an organization that exhibits strong Process Safety Competency?

- A. The organization identifies the skills required for effective process safety and establishes training to ensure that those skills are in place
- B. The organization keeps operating procedures up to date
- C. The organization effectively manages hot work
- D. The organization rapidly follows through on employee suggestions

Answer: A

Explanation:

The correct answer is A because it directly reflects the core definition of Process Safety Competency within the CCPS Risk-Based Process Safety framework.

Process Safety Competency focuses on ensuring that personnel at all levels possess the knowledge, skills, and abilities required to manage process safety risks effectively. This includes identifying required competencies, assessing current capabilities, and providing structured training and development programs to close any gaps.

Option A captures this precisely by emphasizing both identification of required skills and implementation of training systems to ensure competency is achieved and maintained.

Options B and C relate to specific RBPS elements- safe work practices and operating procedures -rather than overall competency.

Option D reflects workforce involvement and responsiveness, which is more aligned with safety culture than competency.

CCPS highlights that strong process safety competency includes initial training, refresher training, verification of understanding, and ongoing development, ensuring that personnel can recognize hazards, follow procedures, and respond appropriately to abnormal situations.

Ultimately, organizations with strong competency systems are better equipped to prevent incidents through informed decision-making and skilled execution of tasks.

NEW QUESTION # 74

What minimum size is normally used for laboratory test apparatus to determine dust explosion severity?

- A. 20 liters
- B. 50 liters
- C. 1 cubic meter
- D. 5 liters

Answer: A

Explanation:

The correct answer is C (20 liters) because the 20-liter sphere apparatus is the widely accepted standard for determining dust explosion severity parameters, including K_{st} (deflagration index) and P_{max} (maximum explosion pressure).

According to CCPS and industry standards (such as ASTM and ISO methods), the 20-liter test chamber provides a controlled, repeatable environment for evaluating the explosibility characteristics of combustible dusts. It represents a balance between laboratory practicality and representative explosion behavior, making it suitable for routine testing.

Smaller volumes such as 5 liters (A) are generally not sufficient to accurately capture explosion dynamics and may produce less reliable results. Larger vessels such as 1 cubic meter (B) are sometimes used for more detailed or confirmatory testing, but they are not typically considered the minimum standard due to cost and complexity. Option D (50 liters) is not a recognized standard for this purpose.

CCPS emphasizes that understanding dust explosibility is essential for hazard identification, equipment design, and mitigation strategies, including explosion venting, suppression, and isolation systems. The 20-liter sphere has become the industry benchmark for generating reliable and comparable dust explosion data.

NEW QUESTION # 75

Workforce involvement metrics can involve (select all that apply):

- A. Number of Loss of Primary Containment Incidents
- B. Number of safety suggestions submitted
- C. Number of Past Due PHA action items
- D. Nuisance alarm rate
- E. Number of comments submitted on the content and frequency of refresher training

Answer: B,E

Explanation:

The correct answers are B and C because workforce involvement metrics in CCPS RBPS focus on active participation, engagement, and feedback from personnel in process safety activities.

B (number of safety suggestions submitted) is a direct indicator of workforce engagement. A high number of suggestions reflects a proactive safety culture where employees are encouraged to identify hazards and propose improvements. CCPS highlights employee participation as a key contributor to strong process safety performance.

C (comments on training content and refresher frequency) is also a valid workforce involvement metric. It reflects how actively employees engage with training programs and provide feedback to improve their effectiveness. This aligns with CCPS emphasis on

continuous learning and workforce input.

Options A (loss of containment incidents) and E (past due PHA action items) are lagging or compliance metrics, not direct measures of workforce involvement. D (nuisance alarm rate) relates to alarm management and system performance rather than employee participation.

CCPS distinguishes between participation metrics (leading indicators of engagement) and outcome metrics (incident-based or system performance). Workforce involvement metrics specifically track how well personnel are contributing to and engaging with process safety systems, which is critical for sustaining a strong safety culture.

NEW QUESTION # 76

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