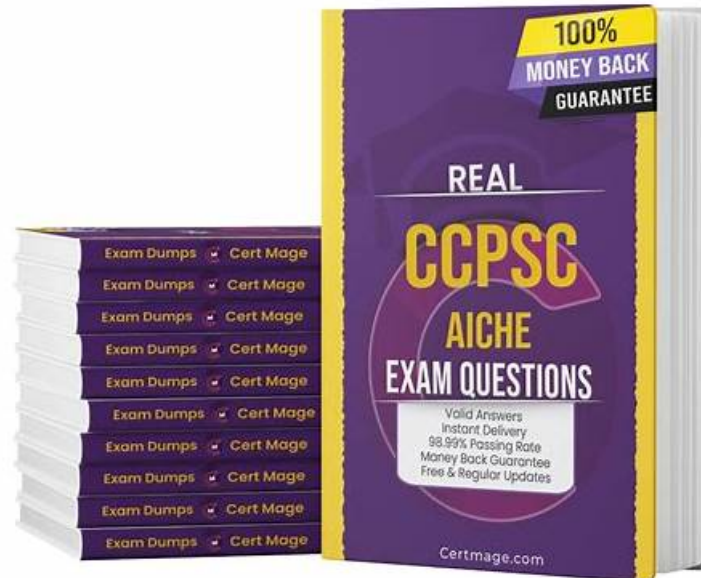


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AIChE CCPSC Exam Syllabus Topics:

Section	Objectives
Risk-Based Process Safety (RBPS) Framework	- Hazard Identification and Risk Analysis - Asset Integrity and Reliability - Training and Performance Assurance - Operational Readiness - Auditing - Safe Work Practices - Metrics and Performance Measurement - Process Safety Culture - Contractor Management - Operating Procedures - Incident Investigation - Emergency Management - Process Knowledge Management - Compliance with Standards - Management Review and Continuous Improvement - Conduct of Operations - Management of Change

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AIChE CCPS Process Safety Professional Certification Sample Questions (Q19-Q24):

NEW QUESTION # 19

Leading process safety metrics can help: (select all that apply)

- A. Identify evolving management system weaknesses
- B. Reduce slips, trips, and falls in the plant
- C. Identify needed adjustments to Risk Based Process Safety element activities before development of a failed state
- D. Target auditing activities

Answer: A,C,D

Explanation:

The correct answers are A, B, and D because leading indicators are designed to provide early warning signals of process safety performance, allowing organizations to act before incidents occur.

Option A is correct because leading metrics help identify weaknesses or degradation in management systems, such as declining inspection completion rates, overdue training, or poor MOC compliance. These indicators reveal problems before they result in incidents.

Option B is also correct because leading indicators support proactive decision-making, enabling organizations to adjust RBPS activities (e.g., maintenance, training, hazard reviews) before a loss of containment or failure event occurs. This is a fundamental goal of process safety management.

Option D is correct because leading metrics can be used to focus and prioritize auditing efforts. For example, areas with declining performance indicators can be targeted for deeper review or corrective actions.

Option C is incorrect because slips, trips, and falls are occupational safety issues, not process safety concerns.

Leading process safety metrics are specifically intended to monitor low-frequency, high-consequence risks, not general workplace safety incidents.

CCPS emphasizes that leading indicators are essential for proactive risk management, helping organizations prevent incidents rather than reacting after they occur.

NEW QUESTION # 20

A process calls for the addition of a reactant over a certain period of time. The flow controller on the reactant's feed line was out of calibration and reduced the flow rate of the reactant. The operator noticed the addition rate was too low and, contrary to the operating procedures, he opened a bypass valve around the flow control valve to increase the flow rate. As a result, the operator added the remaining reactant too quickly, and a runaway reaction occurred. Weaknesses in which of the following Risk Based Process Safety elements could have contributed to the cause of this incident? (Select all that apply)

- A. Incident Investigation
- B. Asset Integrity and Reliability
- C. Conduct of Operations
- D. Workforce Involvement
- E. Training and Performance Assurance

Answer: B,C,E

NEW QUESTION # 21

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

- A. 5 liters

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

Answer: C

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 # 22

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

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

Answer: A,C

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 # 23

A strong Management of Change system should ensure that: (select all that apply)

- A. Appropriate updates have been made to the preventive maintenance requirements
- B. Temporary changes are returned to normal by the required date
- C. Root causes are identified
- D. Emergency changes do not require Management of Change controls
- E. Adequate evaluations of the potential safety and health impacts are performed

Answer: A,B,C,E

Explanation:

The correct answers are B, C, D, and E because these align directly with CCPS expectations for a robust Management of Change (MOC) system under Risk-Based Process Safety.

C (adequate safety and health evaluations) is fundamental to MOC. CCPS requires that all changes-whether in equipment, procedures, chemicals, or organization-be reviewed for potential process safety impacts before implementation.

D (updates to preventive maintenance requirements) is also essential. Changes can affect equipment reliability and degradation mechanisms, so inspection, testing, and maintenance programs must be updated accordingly to maintain asset integrity.

E (management of temporary changes) is a key CCPS requirement. Temporary changes must be tracked, reviewed, and either made permanent through full MOC or reverted by a defined expiration date to prevent them from becoming uncontrolled permanent conditions.

B (root causes identified) is indirectly relevant, as changes often arise from incident learnings, and MOC should incorporate lessons learned to prevent recurrence.

Option A is incorrect because emergency changes still require MOC controls, though they may follow an expedited process. CCPS clearly states that all changes must be managed to ensure risks are properly evaluated and controlled.

NEW QUESTION # 24

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