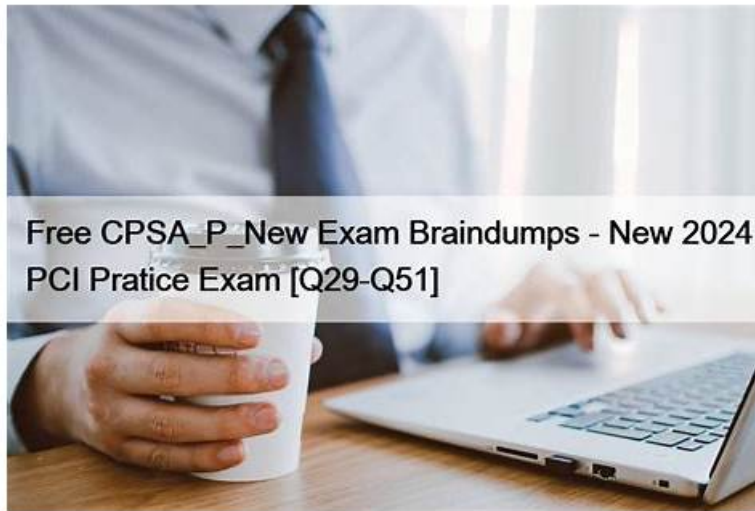


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AIChE CCPS Process Safety Professional Certification Sample Questions (Q20-Q25):

NEW QUESTION # 20

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

- A. Develops recommendations that will eliminate process safety incidents
- 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. Requires the proper mix of expertise to evaluate the proposed change

Answer: C,D,E

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 # 21

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

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

Answer: B,C

NEW QUESTION # 22

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

Answer: A,B,C

Explanation:

The correct answers are A (Asset Integrity and Reliability), B (Conduct of Operations), and D (Training and Performance Assurance) because each directly contributed to the failure scenario described.

A (Asset Integrity and Reliability) is implicated because the flow controller was out of calibration , indicating a failure in inspection, testing, or maintenance systems. CCPS emphasizes that instrumentation must be properly maintained and calibrated to ensure reliable process control.

B (Conduct of Operations) is also a key factor. The operator deviated from established procedures by opening a bypass valve. Conduct of Operations requires strict adherence to procedures, proper supervision, and disciplined operational practices to prevent unsafe actions.

D (Training and Performance Assurance) is relevant because the operator either did not understand the risk of bypassing the control system or was not adequately trained to respond appropriately to abnormal situations.

CCPS stresses that personnel must be competent in both normal and upset conditions.

C (Workforce Involvement) is less directly related to the immediate cause, and E (Incident Investigation) applies after an event, not as a causal factor.

This scenario demonstrates how combined weaknesses in equipment reliability, procedural discipline, and operator competence can lead to a major process safety incident such as a runaway reaction.

NEW QUESTION # 23

Secondary dust explosion consequences are often related to poor housekeeping, true or false?

- A. True

- B. False

Answer: A

Explanation:

The correct answer is A (True) because CCPS clearly identifies poor housekeeping as a major contributing factor to secondary dust explosions, which are often far more destructive than the initial event.

In facilities handling combustible dusts (e.g., grain, sugar, coal, chemicals), small amounts of dust can accumulate on surfaces such as floors, beams, and equipment. While a primary explosion may occur within equipment (e.g., a dust collector), it can generate a pressure wave that disperses accumulated dust into the air, creating a large combustible cloud. If this cloud ignites, it results in a secondary explosion, often with significantly greater impact.

Poor housekeeping allows dust layers to build up, increasing the available fuel for such secondary explosions.

Even thin layers of dust, when dispersed, can create highly explosive concentrations. CCPS emphasizes that effective dust hazard management includes regular cleaning, minimizing dust accumulation, and controlling ignition sources.

This principle has been demonstrated in numerous industrial incidents where secondary explosions caused the majority of damage and fatalities. Therefore, maintaining good housekeeping is a critical preventive measure in combustible dust hazard management.

NEW QUESTION # 24

It is considered good Risk Based Process Safety practice to periodically review operating procedures, and this review must be done by the person who wrote the procedure.

True or False?

- A. True
- B. False

Answer: B

Explanation:

The correct answer is B (False) because, while CCPS strongly emphasizes the importance of periodic review of operating procedures, it does not require that the review be performed by the original author. In fact, CCPS Risk-Based Process Safety encourages independent, multidisciplinary review to improve effectiveness and identify gaps.

Operating procedures should be reviewed regularly to ensure they remain accurate, current, and aligned with actual plant conditions, especially after changes managed through MOC. However, limiting the review to the original author can introduce bias and reduce the likelihood of identifying errors or outdated information.

CCPS promotes involving operators, engineers, supervisors, and subject matter experts in the review process.

Operators, in particular, provide valuable practical insights into how procedures are used in real operations.

Independent reviewers are more likely to challenge assumptions and detect inconsistencies.

Additionally, procedure reviews should verify consistency with process safety information, training materials, and field practices.

This supports safe and reliable operations and reduces the risk of human error.

Therefore, while periodic review is essential, requiring the original author to perform the review is not considered good RBPS practice, and broader participation is preferred.

NEW QUESTION # 25

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