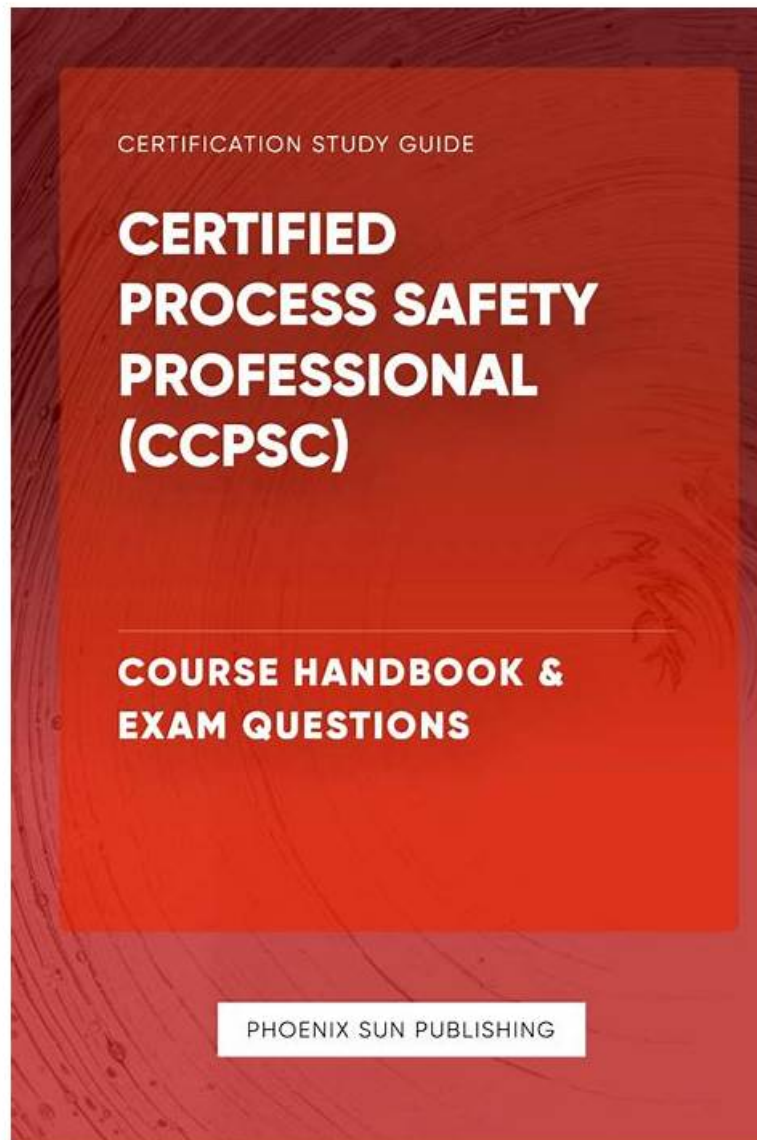


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AIChE CCPS Process Safety Professional Certification Sample Questions

(Q22-Q27):

NEW QUESTION # 22

Who is involved in Management Review at an operating facility? (select all that apply)

- A. Member of community
- B. Plant Managers
- C. First Line Supervisors
- D. Engineers
- E. Process Safety Representative

Answer: B,C,D,E

Explanation:

The correct answers are A, C, D, and E because CCPS defines Management Review and Continuous Improvement as an internal, structured review process involving key personnel responsible for process safety performance and decision-making .

Plant Managers (A) play a critical leadership role by reviewing performance, setting expectations, and ensuring accountability for process safety outcomes. First Line Supervisors (C) are directly involved in operations and provide valuable insight into day-to-day implementation of safety practices.

Engineers (D) contribute technical expertise, helping evaluate system performance, design issues, and risk controls. Process Safety Representatives (E) bring specialized knowledge of RBPS systems, metrics, and compliance, ensuring that reviews are aligned with process safety principles.

Option B (Member of community) is incorrect because management reviews are internal organizational processes , not external or public activities. While community engagement is important under other elements (e.g., stakeholder outreach), it is not part of formal management review.

CCPS emphasizes that management reviews should involve a cross-functional team to ensure comprehensive evaluation of process safety performance, identification of improvement opportunities, and alignment with organizational goals.

NEW QUESTION # 23

Asset Integrity inspection/test methods for tubes in shell and tube heat exchangers include (select all that apply):

- A. Borescope
- B. Hydrostatic test
- C. Radiography
- D. Dye injection

Answer: A,B

Explanation:

The correct answers are A (Borescope) and C (Hydrostatic test) because these are commonly accepted and practical methods for inspecting the condition and integrity of heat exchanger tubes under the Mechanical Integrity element of RBPS.

Borescope inspection (A) allows direct visual examination of the internal surfaces of tubes. It is particularly useful for identifying corrosion, fouling, pitting, cracking, and blockages . CCPS recognizes visual inspection tools as important non-destructive examination (NDE) techniques for assessing internal equipment condition.

Hydrostatic testing (C) is used to verify the pressure integrity and leak tightness of the exchanger tubes. By pressurizing the system with a liquid, operators can detect leaks or weaknesses that could lead to failure during operation.

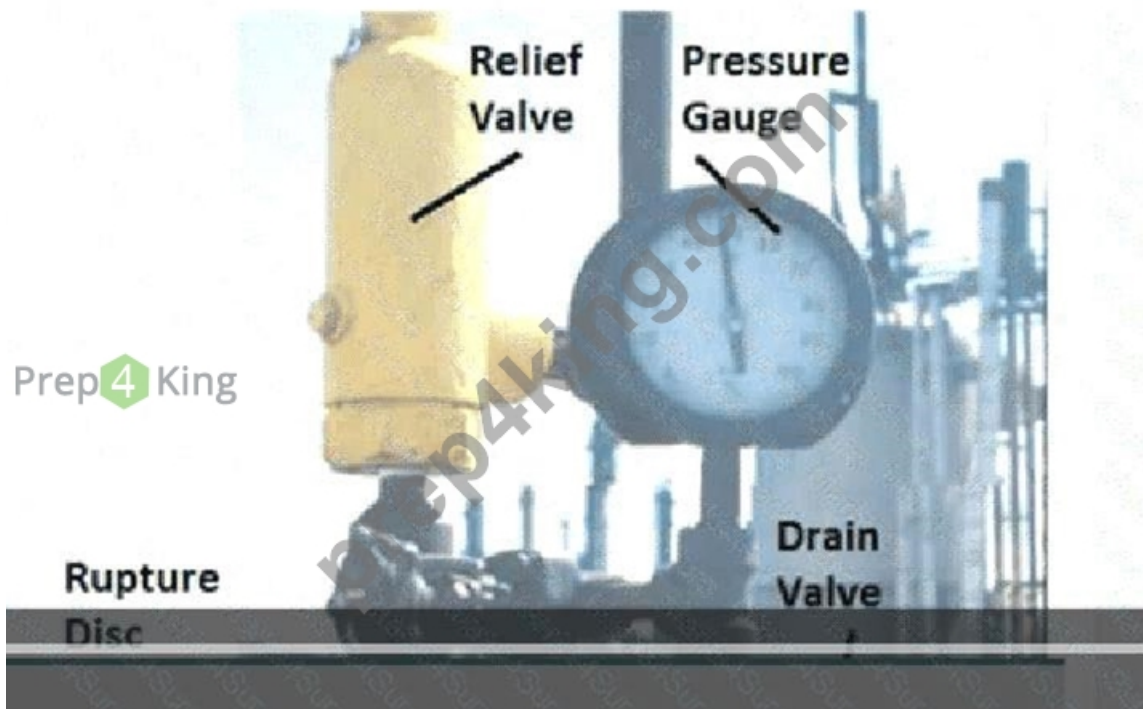
Option B (Dye injection) is not a standard or recognized method for internal tube inspection in heat exchangers. While dye penetrant testing exists, it is typically used on surfaces-not for internal tube integrity in this context.

Option D (Radiography) is generally impractical for inspecting individual tubes in shell-and-tube exchangers due to geometry, access limitations, and effectiveness concerns.

CCPS emphasizes selecting appropriate, proven inspection techniques that effectively assess degradation mechanisms and ensure continued safe operation of critical equipment.

NEW QUESTION # 24

The photo below represents part of the overhead piping for a reactor with a 90 psig maximum allowable working pressure (MAWP). Which of the following statements are correct? (select all that apply)



- A. The combination of rupture disc and relief valve is an acceptable overpressure protection configuration
- B. The pressure gauge shown can be used to verify that the relief device is set correctly
- C. A rupture disc installed upstream of a relief valve can protect the valve from corrosion and fouling
- D. A drain valve between the rupture disc and relief valve can compromise overpressure protection

Answer: A,B

Explanation:

The correct answers are B and D because they highlight subtle but critical deficiencies in the pressure relief system configuration, consistent with CCPS guidance.

Option B is correct because the presence of additional components (such as a pressure gauge connection or trapped pressure between the rupture disc and relief valve) can lead to pressure buildup on the downstream side of the rupture disc. This backpressure increases the effective burst pressure, meaning the disc may not rupture at its intended setpoint, thereby compromising overpressure protection.

Option D is also correct because if the rupture disc is intended to protect the relief valve from corrosion, any leakage, improper installation, or pressure buildup in the space between the disc and valve can negate that protection. For example, corrosive process fluid could still reach the relief valve if the disc is not perfectly leak-tight or if the system is not properly maintained.

Option A is incorrect because current operating pressure does not guarantee safety- relief systems must function correctly during upset conditions. Option C is incorrect because placing a rupture disc upstream of a relief valve is an accepted practice when properly designed.

CCPS emphasizes that improper installation details can significantly degrade relief system performance, even when components appear correct.

NEW QUESTION # 25

Which of the following would be most effective as a leading metric for a Management of Change program?

- A. Percentage of work orders/requests which were misclassified as replacement-in-kind
- B. Number of metrics for which data are collected
- C. Percentage of procedures revalidated per schedule/plan/period
- D. Number (or percent) of overdue inspection, testing, and preventative maintenance tasks

Answer: A

Explanation:

The correct answer is B because it directly reflects the quality and effectiveness of the Management of Change (MOC) process, making it a strong leading indicator per CCPS guidance.

A key risk in MOC systems is the misclassification of changes as "replacement-in-kind" (RIK) when they actually introduce new hazards or modify process conditions. If changes are incorrectly categorized, they may bypass the formal MOC review process, meaning hazards are not evaluated, procedures are not updated, and training is not conducted. Tracking the percentage of misclassified work provides insight into how well personnel understand and apply MOC requirements and highlights weaknesses in the system before incidents occur.

Option A relates to operating procedures management, not specifically MOC effectiveness. C is an asset integrity (mechanical integrity) metric and is more of a lagging or compliance indicator. D does not measure performance or effectiveness-it only reflects data collection activity.

CCPS emphasizes that leading metrics should monitor critical activities that prevent incidents, such as correct identification and processing of changes. By identifying misclassification trends early, organizations can improve training, clarify definitions, and strengthen compliance with MOC procedures, thereby reducing process safety risk.

NEW QUESTION # 26

The XYZ Corporation decides to track an activity as shown in the diagram. They interpret the results to indicate a possible deteriorating performance in one of their process safety management elements.

Answer:

Explanation:

Workforce Involvement

Explanation:

The correct answer is Workforce Involvement because the chart tracks the number of industry group meetings at which company presenters shared significant lessons learned, and the trend is clearly declining over time.

This metric reflects how actively personnel are engaging externally, sharing knowledge, and contributing to industry learning, which are key aspects of workforce involvement. A decreasing trend suggests reduced participation, knowledge sharing, and engagement-indicating potential weakening in this element.

While Measurement and Metrics is involved in tracking the data, it is not the element being degraded-it is simply the tool used to identify the issue. The underlying concern is behavioral and engagement-related, which aligns with Workforce Involvement.

This activity also touches on learning culture, but within CCPS RBPS, active participation, sharing lessons learned, and engagement in industry forums are core indicators of a strong Workforce Involvement element.

A decline in such participation may signal:

Reduced emphasis on learning from others

Lower employee engagement

Weakening process safety culture

CCPS stresses that strong organizations promote active knowledge sharing internally and externally, making this trend a meaningful leading indicator of declining workforce involvement.

NEW QUESTION # 27

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