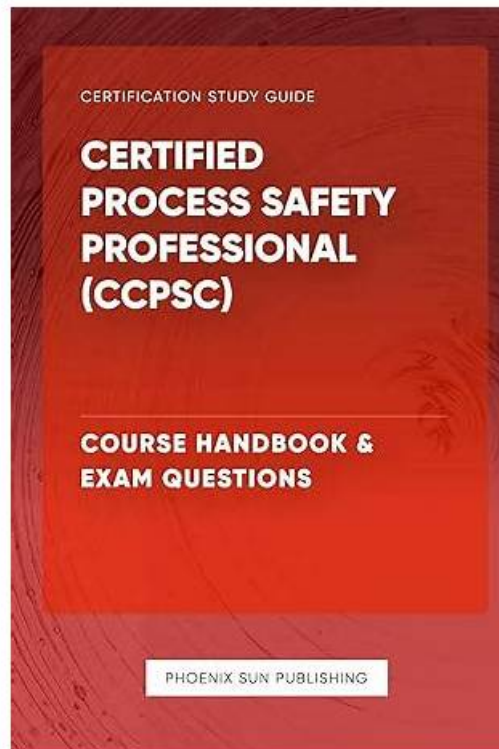


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AICHE CCPS Process Safety Professional Certification Sample Questions (Q71-Q76):

NEW QUESTION # 71

A line is provided for adding a chemical to a reactor to quench the reaction. The line has an automatic valve which is designed to open when reactor temperature exceeds the High-High limit. Which of the items are key parts of the ITPM (Inspection, Testing, and Preventive Maintenance) requirements for the valve? (Select all that apply)

- A. Valve and its control system must be inspected and tested with sufficient frequency to confirm that it will reliably open when required
- B. Valve must be functionally tested to ensure that it opens quickly enough to quench the reaction
- C. Valve must be designed to fail open
- D. Valve must be designed to open quickly enough to quench the reaction

Answer: A,B

Explanation:

The correct answers are A and C because ITPM (Inspection, Testing, and Preventive Maintenance) focuses on verifying performance and ensuring ongoing reliability of safety-critical equipment, not on design requirements.

Option A is correct because functional testing is essential to confirm that the valve operates as intended under real or simulated conditions. In this case, the valve must open quickly enough to effectively quench the reaction, meaning both functionality and response time are critical performance criteria.

Option C is also correct because CCPS emphasizes that safety-critical systems must be periodically inspected and tested at appropriate intervals to ensure they remain reliable. This includes not only the valve itself but also its control system, such as sensors and logic that trigger the action.

Option B and D are design considerations, not ITPM activities. While they are important during the design phase (e.g., ensuring fail-safe positioning or proper sizing), they do not fall under inspection and maintenance requirements.

CCPS highlights that ITPM ensures that protective systems continue to function as intended throughout their lifecycle, reducing the risk of failure during demand condition

NEW QUESTION # 72

Which of the following are evidence that good workforce involvement exists at a facility? (Select all that apply)

- A. Operators are disciplined for not following procedures
- B. Operators are expected to report minor process safety incidents
- C. Operators are consulted on the content of training programs
- D. Operators are always included on PHA teams
- E. Operators participate on incident investigation teams

Answer: B,C,D,E

Explanation:

The correct answers are A, C, D, and E because CCPS defines workforce involvement as active participation, open communication, and inclusion of personnel in safety-related activities and decision-making.

Option A is correct because including operators in Process Hazard Analysis (PHA) teams ensures that practical, real-world knowledge is incorporated into hazard identification and risk evaluation.

Option C is also correct because encouraging reporting of minor incidents and near misses reflects a strong safety culture where employees feel responsible and empowered to share information without fear.

Option D is correct because operator participation in incident investigations provides valuable insights into actual operating conditions and helps identify realistic root causes.

Option E is correct because consulting operators on training program content ensures that training is relevant, practical, and aligned with actual job requirements.

Option B is incorrect because discipline alone does not indicate good workforce involvement. CCPS emphasizes a just culture, where the focus is on learning and improvement rather than punishment.

Overall, strong workforce involvement is demonstrated by engagement, inclusion, and empowerment, which enhance both safety

performance and organizational learning.

NEW QUESTION # 73

Discuss the advantages and disadvantages of using competent third-party auditors for facility process safety audits.

- A. Third-party auditors eliminate the need for internal audits
- B. Third-party auditors only provide benefits with no disadvantages
- C. Third-party auditors provide independence but may lack site-specific knowledge and can be costly
- D. Third-party auditors are always less effective than internal auditors

Answer: C

Explanation:

The correct answer is B because CCPS recognizes both benefits and limitations of using competent third-party auditors within the Process Safety Auditing element of RBPS.

A primary advantage is independence and objectivity. Third-party auditors are not influenced by internal organizational culture, familiarity, or bias, making them more likely to identify systemic weaknesses, normalization of deviance, and overlooked risks. CCPS highlights that this independence enhances credibility

, especially with regulators and external stakeholders. Additionally, external auditors often bring broad industry experience and benchmarking insights, allowing facilities to compare practices against recognized good engineering practices (RAGAGEP). However, there are also disadvantages. Third-party auditors may have limited familiarity with site-specific processes, equipment, and organizational nuances, which can lead to misunderstandings or less practical recommendations. They can also be costly, particularly for smaller organizations. Furthermore, their presence may sometimes affect workforce openness during interviews. CCPS emphasizes that the most effective audit approach often involves a balance, combining external auditors for independence and internal personnel for site knowledge. This ensures audits are both objective and practically relevant, leading to more actionable and meaningful improvements in process safety performance.

NEW QUESTION # 74

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 # 75

For a vapor explosion in an unconfined and uncongested area, the amount of thermodynamic energy that ends up in the overpressure is approximately:

- A. 10-15%

- B. 100%
- C. 50-75%
- **D. 2-5%**
- E. 0%

Answer: D

Explanation:

The correct answer is D (2-5%) because, according to CCPS guidance on vapor cloud explosions (VCEs), only a small fraction of the total thermodynamic energy released during combustion is converted into blast overpressure in unconfined and uncongested conditions.

In such scenarios, the combustion process occurs relatively slowly (deflagration rather than detonation), and much of the energy is dissipated as heat, light, and expansion of gases, rather than contributing to pressure waves. As a result, only about 2-5% of the total energy is typically available to generate damaging overpressure effects.

Higher energy conversion efficiencies (such as 10% or more) are generally associated with congested or confined environments, where obstacles (pipes, equipment, structures) promote turbulence and flame acceleration, significantly increasing overpressure. In contrast, an open and uncongested area limits turbulence, reducing explosion severity.

Options A, B, and C significantly overestimate the fraction of energy contributing to blast effects, while E (0%) is incorrect because some overpressure is always generated.

CCPS emphasizes understanding explosion efficiency when performing consequence analysis, as it is a key factor in predicting blast damage and designing appropriate safeguards.

NEW QUESTION # 76

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