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AIChE CCPS Process Safety Professional Certification Sample Questions (Q85-Q90):

NEW QUESTION # 85
Leading process safety metrics can help: (select all that apply)

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

Answer: A,B,C

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 # 86
A rupture pin relief device operates when:

- A. An electric solenoid operates a pin, allowing the valve seat to open
- B. A rod buckles at a specific pressure allowing the seat to open
- C. A special spiral spring called a "pin spring" pushes against the valve seat - the valve opens when the pressure against the seat is high enough
- D. This is a special type of spring relief with a very small seat, called a pin seat

Answer: B

Explanation:
The correct answer is C because a rupture pin relief device operates based on the mechanical buckling of a calibrated pin (or rod) at a predetermined pressure.
According to CCPS and industry practice, rupture pin devices are a type of non-reclosing pressure relief device that rely on structural instability (buckling) rather than spring force or membrane rupture. The pin is designed to fail (buckle) at a specific load corresponding to a set pressure. When this occurs, the valve mechanism is released, allowing the system to relieve pressure.
This design provides high accuracy and reliability , especially in applications where precise set pressure is required and where traditional spring-loaded relief valves may be affected by corrosion, vibration, or backpressure.
Option A is incorrect because it describes a spring-loaded relief valve , not a rupture pin device. Option B is incorrect because rupture pin devices are mechanical, not electrically actuated . Option D is incorrect because there is no such concept as a "pin seat" type of relief valve.
CCPS highlights rupture pin devices as an alternative to rupture discs and spring valves, particularly where tight tolerances and resistance to process conditions are needed.

NEW QUESTION # 87
A facility's process safety staff does consequence modeling for releases of various toxic substances that the facility handles. Which elements of Risk Based Process Safety would be most likely to use the results of this modeling? (Select all that apply)

- A. Measurement and Metrics
- B. Hazard Identification and Risk Analysis
- C. Operational Readiness
- D. Stakeholder Outreach
- E. Emergency Management

Answer: B,D,E

Explanation:
The correct answers are C (Stakeholder Outreach), D (Hazard Identification and Risk Analysis), and E (Emergency Management) because consequence modeling is fundamentally used to understand the potential impact of hazardous material releases and to support risk-informed decision-making across these RBPS elements.
Within Hazard Identification and Risk Analysis (HIRA) , consequence modeling is a core analytical tool used in studies such as

HAZOP, LOPA, and quantitative risk assessments (QRA). It helps estimate the severity of potential release scenarios, including toxic dispersion, which directly supports risk evaluation and safeguards selection.
For Emergency Management , modeling results are essential to plan effective response strategies. They define hazard zones, evacuation distances, shelter-in-place decisions, and emergency resource allocation. CCPS emphasizes that credible worst-case and alternative release scenarios should guide emergency preparedness planning.
In Stakeholder Outreach , consequence modeling provides critical information for communicating risks to external parties such as local communities, regulators, and emergency responders. This aligns with CCPS guidance on transparency and community awareness, ensuring stakeholders understand potential offsite consequences.
Operational Readiness (A) focuses on startup and system preparedness, not consequence modeling outputs.
Measurement and Metrics (B) deals with performance indicators rather than predictive hazard analysis.
Therefore, they are less directly connected to the use of consequence modeling results.

NEW QUESTION # 88
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 must be designed to open quickly enough to quench the reaction
- B. Valve must be designed to fail open
- C. Valve must be functionally tested to ensure that it opens quickly enough to quench the reaction
- D. Valve and its control system must be inspected and tested with sufficient frequency to confirm that it will reliably open when required

Answer: C,D

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 # 89
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 # 90
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