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## AIChE CCPS Process Safety Professional Certification Sample Questions (Q105-Q110):

### NEW QUESTION # 105

A 3000 gallon, stainless steel, insulated vessel rated for 30 psig is equipped with a rupture disc set for 30 psig for emergency relief. Assuming each of the following scenarios has been deemed possible, which would require the smallest sized relief?

- A. An internal ignition of the vessel's vapor space, the vessel containing a solvent
- B. A runaway reaction of the vessel's contents, in solvent service, where testing has determined a temperature rise rate of 500°C/min at disc relief setting
- C. A pool fire from the leak of a common solvent beneath the vessel

**Answer: C**

Explanation:

The correct answer is A because a pool fire scenario typically results in a slower and more predictable heat input compared to other overpressure scenarios, thus requiring a smaller relief capacity .

In CCPS guidance for relief system design and hazard analysis , different scenarios are evaluated based on how rapidly they generate vapor or pressure. A pool fire heats the vessel externally, causing liquid boiling and vapor generation at a rate governed by heat transfer. Although serious, this is generally a gradual energy input , allowing for comparatively smaller relief sizing.

Option B (internal ignition) involves rapid combustion of vapor within the vessel, producing a very fast pressure rise , often too fast for conventional relief systems to handle effectively. This would require significantly larger or different protective measures.

Option C (runaway reaction) is the most severe scenario. A reaction with a temperature rise rate of 500°C/min indicates extremely rapid energy release, leading to very high vapor generation rates and pressure rise , requiring the largest relief capacity .

CCPS emphasizes that relief devices must be sized for the worst credible scenario , but when comparing scenarios, external fire cases typically produce the lowest required relief rates , while reactive and explosive scenarios demand much larger capacities.

### NEW QUESTION # 106

When you comply with applicable regulatory standards you can be confident your plant is safe to operate.

True or False?

- A. False
- B. True

**Answer: A**

Explanation:

The correct answer is B (False) because compliance with regulatory standards represents only a minimum baseline , not a guarantee of safe operation.

CCPS strongly emphasizes that regulatory compliance alone is insufficient to ensure process safety.

Regulations are typically lagging, generalized, and not specific to every facility's unique hazards and risks .

They establish minimum requirements, but they do not account for all possible failure scenarios, human factors, or site-specific complexities.

True process safety excellence requires a risk-based approach , where organizations go beyond compliance to identify, assess, and manage hazards proactively. This includes implementing robust systems such as Hazard Identification and Risk Analysis (HIRA), Management of Change (MOC), Mechanical Integrity, and strong safety culture practices .

Many major industrial incidents have occurred at facilities that were technically in compliance with regulations, demonstrating that compliance does not eliminate risk. CCPS promotes the concept that organizations must strive for continuous improvement and operational discipline , rather than simply meeting regulatory requirements.

Therefore, while compliance is necessary, it is not sufficient , and relying solely on it can create a false sense of security.

### NEW QUESTION # 107

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

- A. Requires the proper mix of expertise to evaluate the proposed change
- B. Facilitates implementation of appropriate risk controls
- C. Identifies necessary modifications to Risk Based Process Safety element work activities prompted by the change
- D. Develops recommendations that will eliminate process safety incidents
- E. Driven by quality assurance considerations

**Answer: A,B,C**

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 # 108**

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 # 109**



This heater was severely damaged during startup as a result of a firebox explosion. The operator had difficulty with the instrumentation and decided to complete the startup by bypassing the interlocks. The main gas valve was opened and gas filled the heater while the pilots were off.

Upon lighting of the pilots, the heater exploded destroying the casing and damaging several tubes. Identify and discuss what elements of Risk-Based Process Safety, had they been implemented more effectively, could have reduced or eliminated the likelihood of this event occurring or reduced the consequences.

- A. Only Emergency Management was involved
- B. No RBPS elements could have prevented this incident
- C. Only Mechanical Integrity was involved
- **D. Multiple elements including Operating Procedures, Management of Change, Training, Asset Integrity, and Process Safety Culture were involved**

**Answer: D**

Explanation:

The correct answer is C because this incident clearly involves multiple failures across several RBPS elements, not a single-point breakdown. According to CCPS, major incidents typically result from combined weaknesses across systems. Operating Procedures and Safe Work Practices were inadequate or not followed, as proper startup procedures should strictly prohibit bypassing safety interlocks and require verification of pilot ignition before introducing fuel gas. Management of Change (MOC) is relevant because bypassing interlocks constitutes a temporary change that should require formal authorization, risk assessment, and safeguards.

Training and Performance Assurance is critical, as the operator did not fully understand the hazard of gas accumulation in the firebox or the consequences of bypassing safeguards. Asset Integrity and Reliability also contributed, since instrumentation problems triggered the unsafe decision, indicating possible maintenance or reliability issues.

Additionally, Hazard Identification and Risk Analysis (HIRA) should have identified this scenario (fuel gas accumulation before ignition) as a credible hazard requiring strong safeguards. Finally, Process Safety Culture played a role, as bypassing interlocks suggests normalization of unsafe practices or production pressure overriding safety.

This event illustrates a classic breakdown of layers of protection, where both technical and organizational controls failed simultaneously, leading to a catastrophic explosion.

## NEW QUESTION # 110

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