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

NEW QUESTION # 105
What minimum size is normally used for laboratory test apparatus to determine dust explosion severity?

- A. 20 liters
- B. 1 cubic meter
- C. 50 liters
- D. 5 liters

Answer: A

Explanation:
The correct answer is C (20 liters) because the 20-liter sphere apparatus is the widely accepted standard for determining dust explosion severity parameters , including Kst (deflagration index) and Pmax (maximum explosion pressure) .
According to CCPS and industry standards (such as ASTM and ISO methods), the 20-liter test chamber provides a controlled, repeatable environment for evaluating the explosibility characteristics of combustible dusts. It represents a balance between laboratory practicality and representative explosion behavior , making it suitable for routine testing.
Smaller volumes such as 5 liters (A) are generally not sufficient to accurately capture explosion dynamics and may produce less reliable results. Larger vessels such as 1 cubic meter (B) are sometimes used for more detailed or confirmatory testing, but they are not typically considered the minimum standard due to cost and complexity. Option D (50 liters) is not a recognized standard for this purpose.
CCPS emphasizes that understanding dust explosibility is essential for hazard identification, equipment design, and mitigation strategies , including explosion venting, suppression, and isolation systems. The 20- liter sphere has become the industry benchmark for generating reliable and comparable dust explosion data.

NEW QUESTION # 106
Which of the following statements are correct regarding the flow control loop in the illustration? (Select all that apply)

- A. The component failure probabilities are multiplied together to determine the overall failure probability for the control loop.
- B. The component reliabilities are multiplied together to determine the overall reliability for the control loop.
- C. The overall failure of the control loop requires failure of only one of the components.
- D. The overall failure of the control loop requires failure of all of the components.

Answer: B,C

Explanation:
The correct answers are B and D because a typical flow control loop (including flow meter, controller, control valve, and associated instrumentation) behaves as a series system from a reliability perspective, as described in CCPS risk analysis and Layer of Protection Analysis (LOPA) principles.
In a series system , the system fails if any single component fails , which supports answer D . For example, if the flow transmitter gives incorrect readings, or the control valve fails to actuate, the loop can no longer maintain proper control. This aligns with CCPS guidance that basic process control systems (BPCS) are generally not highly reliable independent protection layers due to multiple potential failure points.
For such systems, the overall reliability is calculated by multiplying the reliabilities of individual components
, which supports answer B . Each component must function correctly for the system to succeed.
Option A is incorrect because failure probabilities are not simply multiplied in this context; instead, reliability (success probability) is multiplied, and failure probability is derived from the complement. Option C is incorrect because it describes a parallel system, where all components must fail for system failure-this is not applicable to a standard control loop.
This concept is critical in CCPS hazard analysis and LOPA when evaluating safeguard effectiveness and independence.

NEW QUESTION # 107
A facility is selecting an inerting procedure for one of its large reactors. Which inerting method would be expected to require the greatest nitrogen consumption?

- A. Pressure purging
- B. Vacuum purging
- C. Siphon purging
- D. Vacuum/pressure purging
- E. Sweep through purging

Answer: E

Explanation:
The correct answer is C (Sweep through purging) because it is the least efficient inerting method in terms of inert gas consumption , as described in CCPS guidance on inerting and purging practices.
In sweep through purging , nitrogen is continuously introduced into the vessel while the existing gas mixture is displaced and vented. This method relies on dilution rather than compression or evacuation, meaning that large volumes of nitrogen are required to achieve the desired reduction in oxygen concentration. The inefficiency arises because complete mixing is assumed, and multiple vessel volume exchanges are needed.
In contrast, pressure purging (B) and vacuum purging (A) are significantly more efficient. Pressure purging uses repeated

pressurization and venting cycles to reduce oxygen concentration, while vacuum purging removes gases before backfilling with nitrogen. The most efficient method is typically combined vacuum
/pressure purging (D) , which minimizes nitrogen usage by leveraging both techniques.
Siphon purging (E) is not a commonly recognized CCPS inerting method for gas-phase systems.
CCPS emphasizes selecting inerting methods based on vessel design, pressure capability, safety requirements, and gas consumption efficiency. For large vessels, minimizing nitrogen usage is often important for both cost and operational practicality.

NEW QUESTION # 108
For which of the following Risk Based Process Safety elements do checklists generally serve an important role? (Select all that apply)

- A. Operational Readiness
- B. Workforce Involvement
- C. Process Safety Culture
- D. Operating Procedures
- E. Stakeholder Outreach

Answer: A,D

Explanation:
The correct answers are B and C because checklists are widely used in structured, procedural, and verification- based activities , which are central to Operational Readiness and Operating Procedures.
Option B (Operational Readiness) is correct because checklists are essential in Pre-Startup Safety Reviews (PSSR) and readiness verification. They ensure that all required steps-such as confirming equipment installation, procedures, training, and safeguards-are completed before startup. Checklists help prevent omissions and ensure consistency.
Option C (Operating Procedures) is also correct because checklists are often embedded in procedures to guide operators through critical steps , especially during startup, shutdown, emergency operations, or infrequent tasks. They promote operational discipline and reduce the likelihood of human error.
Options A, D, and E are less dependent on checklists. These elements focus more on behavior, communication, culture, and engagement , which are not effectively managed through checklist-based approaches alone.
CCPS emphasizes that checklists are most valuable where standardization, completeness, and verification are critical , helping ensure that important steps are not missed and that processes are executed safely and consistently.

NEW QUESTION # 109
As the temperature increases, the upper and lower flammability limits change in the following fashion:

- A. The upper limit increases and the lower limit decreases
- B. The upper limit decreases and the lower limit increases
- C. The upper limit increases and the lower limit increases
- D. The upper limit decreases and the lower limit decreases

Answer: A

Explanation:
Comprehensive Explanation (CCPS-based):
As temperature increases, the flammability range of a vapor widens , meaning it becomes easier for combustion to occur over a broader concentration range. This happens because higher temperatures provide additional energy to support combustion reactions.
The Lower Flammability Limit (LFL) decreases with increasing temperature. This means that less fuel is required to sustain combustion , making mixtures that were previously too lean now flammable.
At the same time, the Upper Flammability Limit (UFL) increases. This means that richer mixtures (higher fuel concentrations) can still support combustion because elevated temperatures improve reaction kinetics and reduce quenching effects.
Together, these changes expand the flammable range, increasing hazard potential. This is a critical concept emphasized by CCPS, particularly in evaluating process upsets, heated systems, and confined spaces , where elevated temperatures can significantly increase explosion risk.
Therefore, the correct answer is C: the upper limit increases and the lower limit decreases , indicating a widening of the flammable range.

NEW QUESTION # 110
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