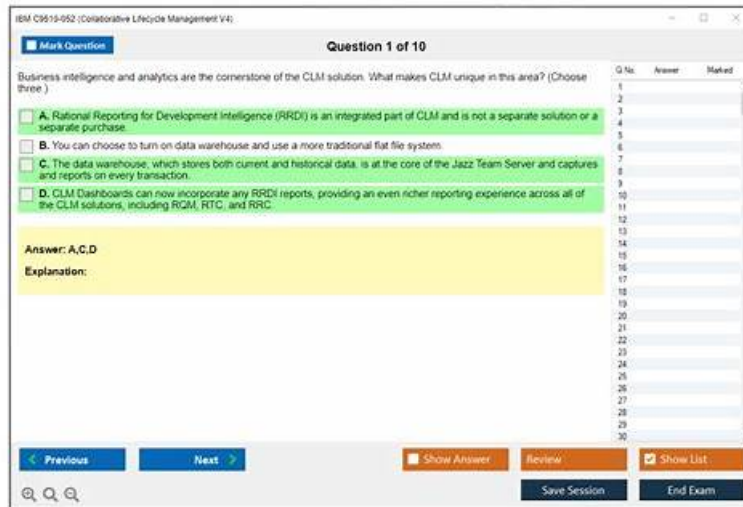


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AIChE CCPS Process Safety Professional Certification Sample Questions (Q102-Q107):

NEW QUESTION # 102

For flashing liquids:

- A. the fraction flashed is always less than 10% of the total mass
- B. the fraction flashed is always more than 50% of the total mass
- C. the energy for the flashing comes from the enthalpy of the liquid
- D. flashing will never occur if the liquid is stored above its normal boiling point

Answer: C

Explanation:

The correct answer is C because flashing of liquids is fundamentally an energy-driven thermodynamic process, as described in CCPS consequence analysis and dispersion modeling guidance. When a pressurized liquid is suddenly released to a lower pressure, a portion of the liquid rapidly vaporizes (flashes). The energy required for this phase change comes from the internal energy (enthalpy) of the liquid itself, not from an external heat source.

As the liquid flashes, it cools because energy is consumed in vaporization. The fraction that flashes depends on factors such as initial temperature, pressure, heat capacity, and latent heat of vaporization-not fixed percentages.

Option A and B are incorrect because the fraction flashed is not constant ; it can vary widely depending on thermodynamic conditions.

Option D is incorrect because flashing is actually more likely when a liquid is above its normal boiling point under pressure . When pressure is suddenly reduced, the liquid is in a superheated state and can rapidly flash.

CCPS emphasizes understanding flashing behavior in hazard analysis because it significantly affects release rates, vapor cloud formation, and potential consequences such as toxic exposure or vapor cloud explosions.

NEW QUESTION # 103

A facility has several processes that need to be audited. There are 120 P & IDs (Piping and Instrumentation Diagrams) for the processes to be audited. The auditor responsible for Process Knowledge Management should:

- A. Only review P & IDs from the processes with the highest process safety risk
- B. Request assistance from the lead auditor to distribute the load
- C. Plan to extend the time required to do the audit
- D. Review a representative sampling of P & IDs from all processes

Answer: D

Explanation:

Comprehensive Explanation (CCPS-based):

The correct answer is D because CCPS auditing guidance emphasizes the use of representative sampling when the volume of information is large. Reviewing all 120 P & IDs is typically impractical and unnecessary for an audit, while reviewing only high-risk processes (Option A) could overlook systemic issues in lower- risk areas.

A representative sample ensures that the auditor evaluates consistency, completeness, and quality of process knowledge management across the entire facility , not just selected areas. This approach allows identification of systemic weaknesses , such as outdated drawings, missing information, or inconsistencies between documents and actual installations.

Option B may help logistically but does not address the audit methodology , which is the focus of the question. Option C is inefficient and not aligned with standard audit practices, which prioritize effectiveness and practicality .

CCPS promotes audits that are risk-informed, efficient, and evidence-based , using sampling techniques to draw valid conclusions about the overall health of a system without reviewing every single document.

NEW QUESTION # 104

As the temperature increases, the upper and lower flammability limits change in the following fashion:

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

Answer: D

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 # 105

Which of the following are appropriate factors to consider when determining the number of individuals on the incident investigation team? (Select all that apply)

- A. The complexity of the incident
- B. The need for the investigation team to be well-balanced and unbiased
- C. The team should always include an external consultant or insurance agent
- D. The number of people that volunteer to participate

Answer: A,B

Explanation:

According to CCPS guidance on Incident Investigation and Learning, the size and composition of an investigation team must be determined based on the nature and complexity of the incident and the need to ensure an objective, competent, and balanced team. Option A is correct because more complex incidents- especially those involving multiple system failures, significant consequences, or unclear causal chains- require a larger team with diverse technical expertise (e.g., operations, engineering, safety).

Option D is also correct because CCPS emphasizes that investigation teams must be free from bias and include members with different perspectives to avoid premature conclusions or blame-focused outcomes. A balanced team improves the quality of root cause analysis and ensures credible findings.

Option B is incorrect because CCPS does not mandate the inclusion of external consultants or insurance agents in every investigation. While external experts may be useful in complex or specialized cases, they are not always required.

Option C is incorrect because team size should not depend on volunteers, but rather on required competencies and investigation scope. Allowing volunteers to determine team size can lead to inefficiency or lack of needed expertise.

Ultimately, CCPS stresses that investigation teams should be fit-for-purpose, technically capable, and structured to produce reliable, learning-focused outcomes.

NEW QUESTION # 106

After an incident with fatal consequences, you are requested by top management to form an investigation team. Who of the following would be the most suitable candidate to lead the company investigation?

- A. An authorized off-site company resource
- B. A representative of the contractor that was performing the task when the accident occurred
- C. The lead process engineer of the plant
- D. The integrity and maintenance supervisor
- E. The plant manager

Answer: A

Explanation:

The correct answer is D (An authorized off-site company resource) because CCPS emphasizes that serious incident investigations- especially those involving fatalities or major consequences -should be led by an individual who is independent, unbiased, and highly trained in investigation methodologies.

An off-site resource provides objectivity and impartiality, which is critical when investigating high-severity incidents. Internal personnel such as the plant manager (A), maintenance supervisor (B), or lead process engineer (C) may have direct or indirect involvement, organizational bias, or conflicts of interest that could influence findings or limit openness during interviews.

Option E (contractor representative) is also not appropriate as a leader due to potential bias and limited system-wide perspective. CCPS guidance stresses that investigation leaders should have expertise in root cause analysis techniques, strong facilitation skills, and the authority to conduct a thorough and credible investigation. Independence helps ensure that findings focus on system failures rather than individual blame, aligning with a just culture approach.

While internal personnel should be part of the investigation team for technical input, leadership by an independent, qualified individual enhances credibility, ensures rigor, and supports organizational learning and prevention of future incidents.

NEW QUESTION # 107

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