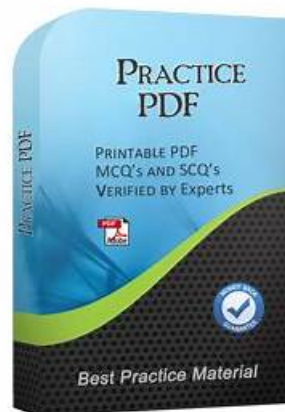


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AICHE CCPS Process Safety Professional Certification Sample Questions (Q53-Q58):

NEW QUESTION # 53

Which of the following criteria would justify not performing a periodic review of operating procedures?

- A. The process has been indefinitely suspended at this facility
- B. The facility is heavily automated
- C. The process is only operated a few times per year
- D. There is very low turnover of plant operators
- E. There are no regulatory requirements to review the procedures
- F. The site has an effective Management of Change program that covers procedures

Answer: A

Explanation:

The correct answer is B because periodic review of operating procedures is required as long as the process is active or could be operated, but may not be necessary if the process has been indefinitely suspended or permanently taken out of service.

CCPS emphasizes that operating procedures must be kept current, accurate, and reviewed periodically to ensure safe operation. This requirement applies regardless of automation level, operator experience, or frequency of operation.

Option A is incorrect because even with a strong Management of Change (MOC) system, periodic reviews are still required to ensure procedures remain accurate and complete. MOC addresses changes, but not ongoing validation.

Options C, E, and F are incorrect because automation, infrequent operation, or low turnover do not eliminate the need for review. In fact, infrequent operations may increase risk, making accurate procedures even more critical.

Option D is incorrect because CCPS promotes best practices beyond regulatory minimums; absence of a regulation does not justify skipping reviews.

Therefore, only when a process is no longer in service (Option B) can periodic procedure review be reasonably deferred, as there is no active operation requiring those procedures.

NEW QUESTION # 54

For flashing liquids:

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

Answer: B

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 # 55

Which of the following considerations should be addressed when developing a process safety Audit system?

(select all that apply)

- A. Staffing of audit teams

- B. Documenting audit results
- C. Scheduling audits
- D. Performing audits

Answer: A,B,C,D

Explanation:

The correct answer is A, B, C, and D because all listed items are essential components of an effective process safety audit system, as defined by CCPS within the RBPS framework.

Option A (documenting audit results) is critical because audit findings must be clearly recorded to ensure traceability, accountability, and follow-up of corrective actions. Without proper documentation, lessons learned may be lost and improvements may not be implemented.

Option B (scheduling audits) ensures that audits are conducted at appropriate intervals. CCPS emphasizes that audits should be planned, periodic, and risk-based, rather than ad hoc.

Option C (performing audits) refers to the actual execution of the audit process, including data collection, interviews, field verification, and evaluation of system effectiveness. This is the core activity of the audit system.

Option D (staffing of audit teams) is also essential because audits must be conducted by qualified, competent, and objective personnel. Proper team composition ensures technical expertise, independence, and credibility of findings.

CCPS highlights that a robust audit system includes planning, execution, documentation, and follow-up, all supported by competent personnel to ensure continuous improvement in process safety performance.

NEW QUESTION # 56

Discuss the training needs for personnel who may be required to respond to a release of a hazardous substance within a chemical facility.

- A. Provide comprehensive training including hazard recognition, emergency response actions, PPE use, and incident command understanding
- B. Limit training to evacuation procedures only
- C. Provide only basic PPE training without practical exercises
- D. Focus only on theoretical knowledge of chemicals and hazards

Answer: A

Explanation:

The correct answer is A because CCPS emphasizes that personnel expected to respond to hazardous substance releases must receive comprehensive, competency-based training that integrates knowledge, skills, and practical application. Under the RBPS elements of Emergency Management and Training and Performance Assurance, responders must be prepared to act safely and effectively under high-stress conditions.

Training should include hazard recognition, such as understanding chemical toxicity, flammability, reactivity, and potential exposure routes. Personnel must be proficient in emergency procedures, including alarm response, evacuation, shelter-in-place, and escalation protocols. A critical component is hands-on training in the use of personal protective equipment (PPE), including selection, inspection, proper donning/doffing, and limitations of equipment like respirators and chemical suits.

Additionally, CCPS highlights the importance of understanding the Incident Command System (ICS) to ensure coordinated response, clear roles, and effective communication. Responders should also be trained in spill control, isolation techniques, and monitoring equipment usage to assess conditions safely.

Regular drills and simulations are essential to reinforce learning and build confidence. Importantly, training must also stress personal safety, situational awareness, and decision-making, including recognizing when to withdraw and allow specialized teams to intervene.

NEW QUESTION # 57

Which of the following typically require piping wall thickness inspections? (Select all that apply)

- A. Process piping that is protected by insulation
- B. Buried process piping at the point where the piping exits the ground
- C. Piping that contains drinking water
- D. Piping that contains nitrogen
- E. Piping that could contain stagnant liquid

Answer: A,B,E

Explanation:

The correct answers are A, D, and E because these conditions are associated with higher corrosion risk and degradation mechanisms, making wall thickness inspection necessary under the Mechanical Integrity element.

Option A is correct because piping under insulation is susceptible to corrosion under insulation (CUI), a well-known and often hidden damage mechanism. Moisture trapped beneath insulation can lead to significant metal loss without visible external signs.

Option D is correct because buried piping at soil-to-air interfaces is particularly vulnerable to corrosion. This transition zone is prone to moisture accumulation, oxygen gradients, and coating breakdown, making it a critical inspection location.

Option E is also correct because stagnant liquids can promote internal corrosion, especially if they contain water, corrosive chemicals, or allow for sediment buildup. Lack of flow can accelerate localized corrosion such as pitting.

Option B (drinking water) and C (nitrogen) are generally less corrosive services and typically present lower risk, though inspections may still occur depending on conditions.

CCPS emphasizes that inspection programs should be risk-based, focusing on areas where degradation is most likely, ensuring early detection of wall thinning and prevention of loss of containment.

NEW QUESTION # 58

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