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AIChE CCPS Process Safety Professional Certification Sample Questions (Q10-Q15):

NEW QUESTION # 10

Applicable codes and standards can be issued by (Select all that apply)

- A. Regulatory agencies
- B. The company
- C. National or international standards organizations

- D. The business unit or site

Answer: A,B,C,D

Explanation:

The correct answer is A, B, C, and D because CCPS recognizes that codes and standards originate from multiple levels, both internal and external to an organization. Within the RBPS element "Compliance with Standards," organizations must identify, adopt, and comply with all applicable requirements regardless of their source.

Regulatory agencies (B) are a primary source, issuing legally enforceable rules such as OSHA regulations or environmental laws.

National and international standards organizations (D) -such as API, ASME, ISO, and NFPA-develop widely accepted consensus standards that define good engineering and safety practices.

However, CCPS also emphasizes that companies (A) often develop their own internal engineering standards, specifications, and best practices that may be more stringent than external requirements. Similarly, business units or individual sites (C) may create localized procedures or technical standards tailored to specific operations, hazards, or regional requirements.

All these sources must be integrated into a comprehensive compliance system. CCPS stresses that organizations are responsible not only for identifying applicable external standards but also for ensuring that internal standards are consistent, current, and properly implemented.

Therefore, effective process safety requires recognizing that codes and standards are multi-sourced, and all listed options are valid contributors.

NEW QUESTION # 11

A process calls for the addition of a reactant over a certain period of time. The flow controller on the reactant's feed line was out of calibration and reduced the flow rate of the reactant. The operator noticed the addition rate was too low and, contrary to the operating procedures, he opened a bypass valve around the flow control valve to increase the flow rate. As a result, the operator added the remaining reactant too quickly, and a runaway reaction occurred. Weaknesses in which of the following Risk Based Process Safety elements could have contributed to the cause of this incident? (Select all that apply)

- A. Conduct of Operations
- B. Workforce Involvement
- C. Training and Performance Assurance
- D. Asset Integrity and Reliability
- E. Incident Investigation

Answer: A,C,D

Explanation:

The correct answers are A (Asset Integrity and Reliability), B (Conduct of Operations), and D (Training and Performance Assurance) because each directly contributed to the failure scenario described.

A (Asset Integrity and Reliability) is implicated because the flow controller was out of calibration, indicating a failure in inspection, testing, or maintenance systems. CCPS emphasizes that instrumentation must be properly maintained and calibrated to ensure reliable process control.

B (Conduct of Operations) is also a key factor. The operator deviated from established procedures by opening a bypass valve.

Conduct of Operations requires strict adherence to procedures, proper supervision, and disciplined operational practices to prevent unsafe actions.

D (Training and Performance Assurance) is relevant because the operator either did not understand the risk of bypassing the control system or was not adequately trained to respond appropriately to abnormal situations.

CCPS stresses that personnel must be competent in both normal and upset conditions.

C (Workforce Involvement) is less directly related to the immediate cause, and E (Incident Investigation) applies after an event, not as a causal factor.

This scenario demonstrates how combined weaknesses in equipment reliability, procedural discipline, and operator competence can lead to a major process safety incident such as a runaway reaction.

NEW QUESTION # 12

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 and its control system must be inspected and tested with sufficient frequency to confirm that it will reliably open when required

- B. Valve must be designed to fail open
- C. Valve must be designed to open quickly enough to quench the reaction
- D. Valve must be functionally tested to ensure that it opens quickly enough to quench the reaction

Answer: A,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 # 13

Which one of the following Hazard Identification and Risk Analysis (HIRA) methods is generally considered to be most quantitative in nature?

- A. Hazard and Operability (HAZOP)
- B. Failure Modes and Effects Analysis
- C. Bow-Tie Analysis
- D. What-If Analysis
- E. What-If/Checklist Analysis

Answer: B

Explanation:

The correct answer is A (Failure Modes and Effects Analysis - FMEA) because it is generally considered the most quantitative (or semi-quantitative) among the listed HIRA methods.

FMEA systematically evaluates potential failure modes, their causes, and consequences, and assigns numerical rankings such as severity, occurrence, and detectability. These rankings are often combined into a Risk Priority Number (RPN), providing a structured and numerical basis for prioritizing risks. This quantitative scoring distinguishes FMEA from more qualitative methods. In contrast, What-If (B) and What-If/Checklist (C) are largely qualitative brainstorming techniques, relying on team experience rather than numerical scoring. HAZOP (E) is a highly structured and systematic method but is still primarily qualitative, focusing on deviations and consequences without assigning numerical risk values. Bow-Tie Analysis (D) is mainly a visual and qualitative method, illustrating barriers and pathways between causes and consequences.

CCPS categorizes HIRA methods along a spectrum from qualitative to quantitative. FMEA lies toward the semi-quantitative end, making it particularly useful when organizations need prioritized, numerically supported risk evaluations while still maintaining practicality in application.

NEW QUESTION # 14

A process calls for the addition of a reactant over a certain period of time. The flow controller on the reactant's feed line was out of calibration and reduced the flow rate of the reactant. The operator noticed the addition rate was too low and, contrary to the operating procedures, he opened a bypass valve around the flow control valve to increase the flow rate. As a result, the operator added the remaining reactant too quickly, and a runaway reaction occurred. Weaknesses in which of the following Risk Based Process Safety elements could have contributed to the cause of this incident? (Select all that apply)

- A. Conduct of Operations
- B. Workforce Involvement
- C. Training and Performance Assurance
- D. Asset Integrity and Reliability
- E. Incident Investigation

Answer: A,C,D

NEW QUESTION # 15

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