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AIChE CCPS Process Safety Professional Certification Sample Questions (Q22-Q27):

NEW QUESTION # 22
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. Workforce Involvement
- B. Training and Performance Assurance
- C. Asset Integrity and Reliability
- D. Conduct of Operations
- E. Incident Investigation

Answer: B,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 # 23
Austenitic stainless steels are typically susceptible to which of the following corrosion mechanisms specifically attributed to chloride exposure? (Select all that apply)

- A. Uniform corrosion
- B. Galvanic corrosion
- C. Pitting corrosion
- D. Stress corrosion cracking

Answer: C,D

NEW QUESTION # 24
Applicable codes and standards can be issued by (Select all that apply)

- A. Regulatory agencies
- B. National or international standards organizations
- C. The business unit or site
- D. The company

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 # 25
Which of the following Risk-Based Process Safety elements are expected to be most directly and frequently involved with the Emergency Management Element? (select all that apply)

- A. Management of Change
- B. Hazard Identification and Risk Analysis
- C. Training and Performance Assurance
- D. Stakeholder Outreach

Answer: B,C,D

Explanation:
The correct answers are A, C, and D because these RBPS elements are closely integrated with Emergency Management activities and are frequently involved in planning, preparation, and response.
Option A (Stakeholder Outreach) is correct because emergency management requires coordination with external stakeholders , including local communities, emergency responders, and regulatory agencies.
Effective communication ensures that all parties understand potential hazards and response expectations.
Option C (Training and Performance Assurance) is essential because personnel must be trained and competent in emergency response procedures . This includes drills, simulations, and ensuring that responders can perform effectively under emergency conditions.
Option D (Hazard Identification and Risk Analysis) is also critical because emergency planning is based on credible incident scenarios identified during hazard analyses (e.g., fires, explosions, toxic releases). These scenarios define response strategies and required resources.
Option B (Management of Change) is less directly and less frequently involved. While MOC ensures that changes are evaluated for impact on emergency plans, it is not a primary or frequent activity within emergency response itself.
CCPS emphasizes that effective emergency management depends on hazard awareness, trained personnel, and strong coordination with stakeholders .

NEW QUESTION # 26
A common design safety factor typically used for pressure vessels is:

- A. 10 times the MAWP
- B. 1.5 times the MAWP
- C. 1 times the MAWP (Maximum Allowable Working Pressure)
- D. 4 times the MAWP

Answer: B

Explanation:
The correct answer is B (1.5 times the MAWP) because pressure vessels are typically designed and tested with a safety margin above their Maximum Allowable Working Pressure (MAWP) to ensure structural integrity under operating and upset conditions.
According to CCPS and widely accepted engineering codes such as ASME, pressure vessels are often hydrostatically tested at approximately 1.3 to 1.5 times the MAWP . This provides a safety factor to account for uncertainties such as material imperfections, corrosion, fatigue, and unexpected pressure surges.
The MAWP represents the maximum pressure at which the vessel is allowed to operate safely under normal conditions. Designing and testing above this limit ensures that the vessel can withstand occasional excursions without failure.
Option A (10 times) and C (4 times) are unrealistically high and not practical for engineering design. Option D (1 times MAWP) would provide no safety margin, which is unacceptable in pressure vessel design.
CCPS emphasizes the importance of design margins and conservative engineering practices to prevent catastrophic failures, ensuring that equipment can safely handle both normal and abnormal operating conditions.

NEW QUESTION # 27
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