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CCPSC Test Dumps: CCPS Process Safety Professional Certification - CCPSC Actual Exam Questions

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AIChE CCPS Process Safety Professional Certification Sample Questions (Q80-Q85):

NEW QUESTION # 80

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 # 81

Contractors were installing a heating coil in a small tank. When the job was nearly complete, the workers went on break, but one of them stayed behind and entered the tank alone. It is believed that while doing so, he inadvertently bumped open the nitrogen supply line lever-operated valve. He was later found dead inside the tank. Based only on the information provided in this brief description, which of the RBPS (Risk Based Process Safety) elements most directly apply to this event? (Select all that apply)

- A. Emergency Management
- B. Auditing
- C. Safe Work Practices
- D. Measurement and Metrics
- E. Management Review and Continuous Improvement
- F. Contractor Management

Answer: C,F

NEW QUESTION # 82

A facility has implemented a program of tracking the rate of submittals of process safety related employee suggestions. Which Risk Based Process Safety element does this program demonstrate?

- A. Operating Procedures
- B. Management of Change
- C. Workforce Involvement
- D. Hazard Identification and Risk Analysis

Answer: C

Explanation:

The correct answer is A. Workforce Involvement because the program specifically tracks employee participation in process safety through suggestion submittals, which is a key indicator of workforce engagement.

CCPS defines Workforce Involvement as the active participation of employees in improving process safety systems. This includes mechanisms that encourage workers to contribute ideas, report concerns, and provide feedback. Tracking the rate of employee suggestions is a way to measure how engaged the workforce is in identifying hazards and improving safety performance. It reflects both participation and the effectiveness of communication channels.

While this program uses a metric (tracking rate), the underlying purpose is not simply measurement-it is to promote and evaluate employee involvement, making Workforce Involvement the most appropriate RBPS element.

Option B (Operating Procedures) relates to how tasks are performed safely, not employee engagement. Option C (Hazard

Identification and Risk Analysis) involves formal hazard studies like HAZOP, not suggestion tracking. Option D (Management of Change) deals with controlling changes to processes and equipment.

Thus, this program demonstrates how organizations can encourage and monitor workforce participation, which is essential for building a strong process safety culture.

NEW QUESTION # 83

Workforce Involvement element activities that an operator can participate in can include (select all that apply):

- A. Design of refresher training
- B. Reviewing operating procedures for accuracy
- C. Participating in an audit
- D. Sizing pressure relief devices

Answer: A,B,C

Explanation:

The correct answers are B, C, and D because CCPS emphasizes that Workforce Involvement includes engaging operators in activities where their practical knowledge and experience improve process safety systems.

Option B is correct because operators can contribute to the design and improvement of refresher training programs. Their real-world experience helps ensure that training is relevant, practical, and focused on actual operating challenges.

Option C is also correct because operators are often best positioned to review operating procedures for accuracy and usability.

They can identify unclear instructions, missing steps, or impractical guidance, improving procedural quality and reducing human error.

Option D is correct because operators may participate in audits, providing insights into how procedures and systems are implemented in practice. Their involvement enhances audit effectiveness by incorporating frontline perspectives.

Option A is incorrect because sizing pressure relief devices is a specialized engineering task requiring technical design expertise beyond typical operator responsibilities.

CCPS highlights that workforce involvement should leverage frontline knowledge, improve system design, and foster ownership of process safety, while ensuring that technical tasks remain with appropriately qualified personnel.

NEW QUESTION # 84

A Management of Change system should address all types of changes to the process that can be reasonably foreseen.

- A. False
- B. True

Answer: B

Explanation:

The correct answer is B (True) because CCPS Risk-Based Process Safety clearly states that a Management of Change (MOC) system must address all types of changes that could impact process safety and can be reasonably anticipated.

These changes include modifications to process technology, equipment, procedures, chemicals, operating conditions, and organizational structure. CCPS emphasizes that even seemingly minor changes can introduce new hazards or alter existing risk profiles, making it essential that they are systematically identified and evaluated.

The phrase "reasonably foreseen" is important. It acknowledges that while not every possible scenario can be predicted, organizations are expected to anticipate typical and credible changes based on experience, design knowledge, and operational practices. This includes both permanent and temporary changes, as well as emergency changes (which may follow an expedited but still controlled process).

A robust MOC system ensures that hazards are assessed, safeguards are reviewed, documentation is updated, and personnel are trained before implementation. Failure to capture foreseeable changes is a common root cause of major process safety incidents.

Therefore, CCPS considers it essential that MOC systems are comprehensive in scope, covering all foreseeable changes to maintain process safety and operational integrity.

NEW QUESTION # 85

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