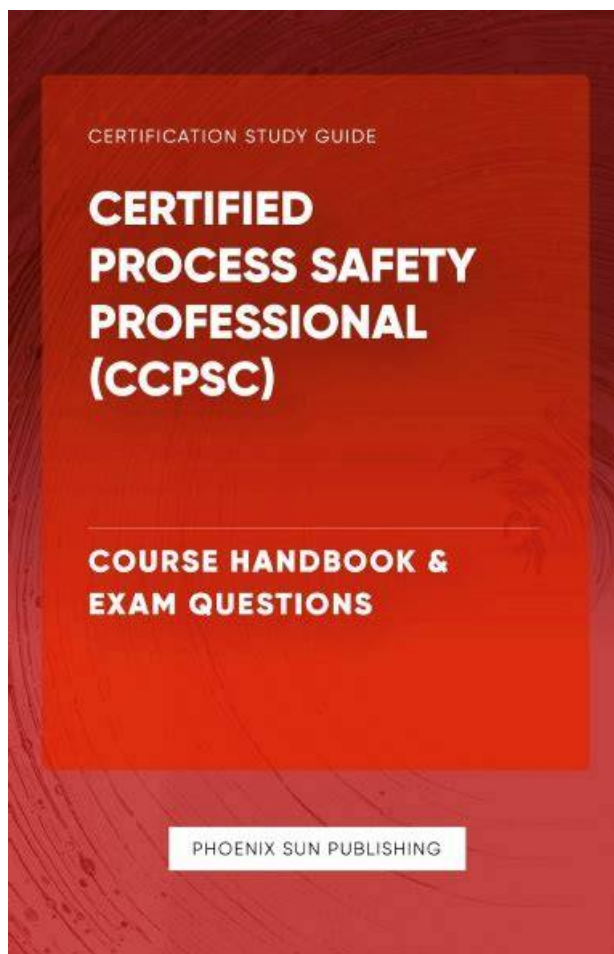


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AICHE CCPSC Exam Syllabus Topics:

Section

Weight

Objectives

		- Asset Integrity and Reliability • 1. Maintenance, inspection, testing • 2. Equipment quality assurance - Process Knowledge Management • 1. Data management and integrity • 2. Documentation, P&IDs, design basis
Process Safety Management Systems	30%	- Operating Procedures and Safe Work Practices • 1. Procedure development and maintenance • 2. Permit systems, lockout/tagout - Management of Change • 1. Technical and administrative review • 2. Risk assessment for changes - Hazard Assessment Methods • 1. FMEA, LOPA, Quantitative Risk Analysis • 2. HAZOP, What-If, Checklist
Hazard Identification and Risk Analysis	25%	- Risk Evaluation and Control • 1. Risk criteria and prioritization • 2. Inherent safety, prevention, mitigation - Process Safety Culture • 1. Leadership and commitment • 2. Compliance and standards • 3. Workforce engagement
Risk Based Process Safety (RBPS) Fundamentals	15%	- Process Safety Competency • 1. Competency verification • 2. Training and development • 3. Knowledge and skills requirements - Investigation Methodology • 1. Evidence collection and analysis • 2. Root cause analysis
Incident Investigation and Learning	15%	- Learning and Improvement • 1. Knowledge sharing and prevention • 2. Corrective actions implementation - Audit and Assessment • 1. Compliance verification • 2. System effectiveness evaluation
Measurement, Audit, and Continuous Improvement	15%	- Performance Indicators • 1. Leading and lagging metrics • 2. Data collection and reporting

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AIChE CCPS Process Safety Professional Certification Sample Questions (Q31-Q36):

NEW QUESTION # 31

Who is involved in Management Review at an operating facility? (select all that apply)

- A. Engineers
- B. First Line Supervisors
- C. Plant Managers
- D. Process Safety Representative
- E. Member of community

Answer: A,B,C,D

Explanation:

The correct answers are A, C, D, and E because CCPS defines Management Review and Continuous Improvement as an internal, structured review process involving key personnel responsible for process safety performance and decision-making.

Plant Managers (A) play a critical leadership role by reviewing performance, setting expectations, and ensuring accountability for process safety outcomes. First Line Supervisors (C) are directly involved in operations and provide valuable insight into day-to-day implementation of safety practices.

Engineers (D) contribute technical expertise, helping evaluate system performance, design issues, and risk controls. Process Safety Representatives (E) bring specialized knowledge of RBPS systems, metrics, and compliance, ensuring that reviews are aligned with process safety principles.

Option B (Member of community) is incorrect because management reviews are internal organizational processes, not external or public activities. While community engagement is important under other elements (e.g., stakeholder outreach), it is not part of formal management review.

CCPS emphasizes that management reviews should involve a cross-functional team to ensure comprehensive evaluation of process safety performance, identification of improvement opportunities, and alignment with organizational goals.

NEW QUESTION # 32

What are some characteristics of an effective Management of Change system? (select all that apply)

- A. Facilitates implementation of appropriate risk controls
- B. Identifies necessary modifications to Risk Based Process Safety element work activities prompted by the change
- C. Driven by quality assurance considerations
- D. Develops recommendations that will eliminate process safety incidents
- E. Requires the proper mix of expertise to evaluate the proposed change

Answer: A,B,E

Explanation:

The correct answers are B, C, and D because they reflect the core functional expectations of an effective Management of Change (MOC) system as defined by CCPS.

Option B is correct because MOC must ensure that appropriate risk controls are identified and implemented before a change is executed. This includes evaluating hazards and ensuring safeguards are in place to prevent incidents.

Option C is also correct because changes often impact multiple RBPS elements (e.g., procedures, training, mechanical integrity), and an effective MOC system ensures that all affected work processes are updated accordingly.

Option D is essential because MOC requires involvement from qualified personnel across disciplines (engineering, operations, safety) to properly evaluate technical and operational impacts of the change.

Option A is incorrect because while MOC contributes to incident prevention, it does not guarantee elimination of all incidents. Option E is incorrect because MOC is primarily risk-based and safety-driven, not governed by general quality assurance considerations.

CCPS emphasizes that effective MOC systems are systematic, multidisciplinary, and risk-focused, ensuring that all changes are thoroughly evaluated and safely implemented.

NEW QUESTION # 33

Process Safety Competency is not involved with succession planning. True or False?

- A. False
- B. True

Answer: A

Explanation:

The correct answer is B (False) because Process Safety Competency is directly linked to succession planning within CCPS Risk-Based Process Safety (RBPS) principles.

CCPS defines Process Safety Competency as ensuring that personnel have the knowledge, skills, and experience necessary to manage process safety risks effectively. A critical component of this is maintaining competency over time, which includes planning for retirements, promotions, and workforce turnover. This is where succession planning becomes essential.

Without proper succession planning, organizations risk losing critical institutional knowledge, especially in complex process industries where experience plays a key role in hazard recognition and safe decision-making.

CCPS emphasizes that companies must identify key roles affecting process safety and ensure that qualified personnel are available to fill these roles in the future.

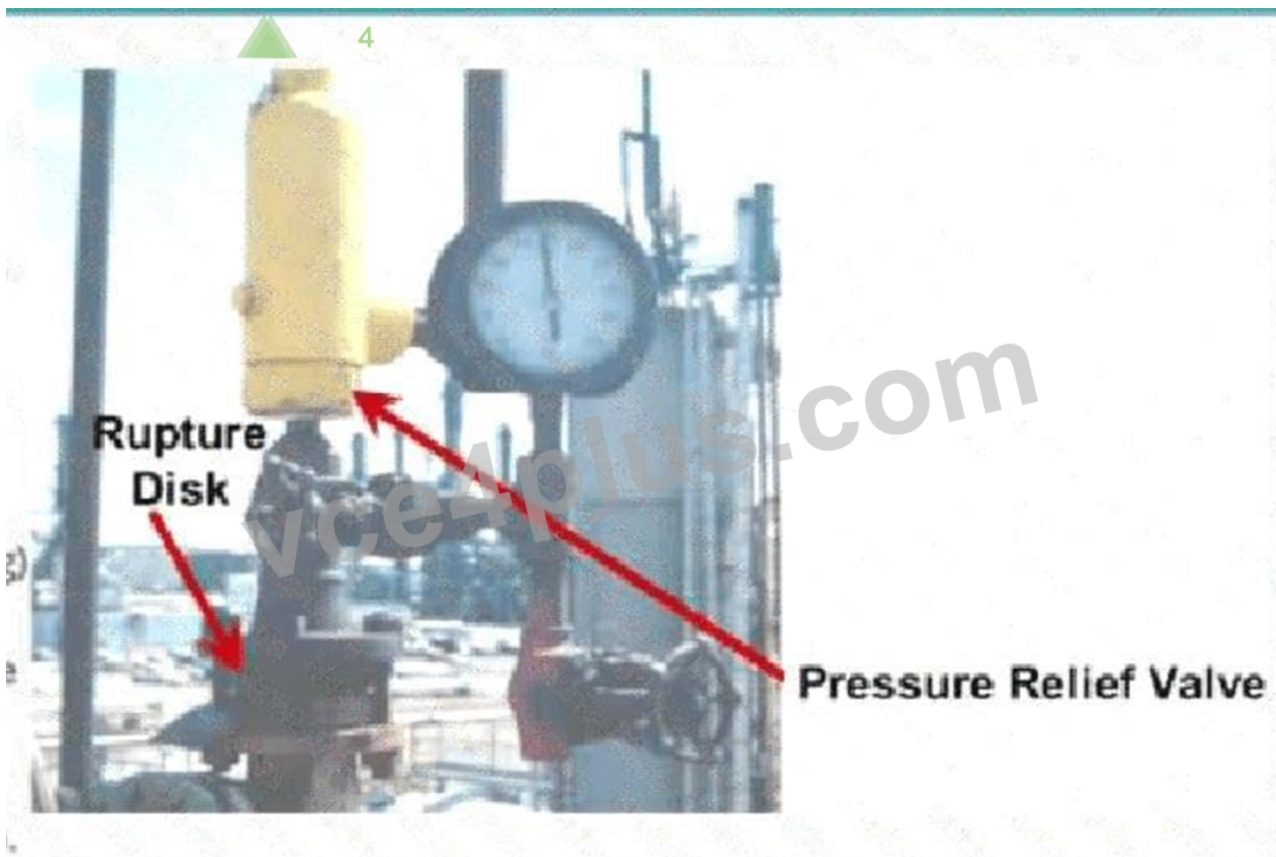
Effective succession planning includes training, mentoring, knowledge transfer, and competency assessment to ensure continuity. It also helps prevent gaps in expertise that could lead to increased risk of incidents.

Therefore, Process Safety Competency is not only involved in succession planning—it is a fundamental aspect of sustaining long-term process safety performance and organizational resilience.

NEW QUESTION # 34

A vessel has a rupture disc and pressure relief valve in series to protect against high pressure in the vessel.

There is a pressure gauge on the pipe between the rupture disc and the relief valve. The gauge normally reads zero. As part of regular maintenance inspections, these pressure gauges are supposed to be routinely checked.



Today, a pressure of nearly 50 psig (~3.5 barg) was observed by an operator. There is a significant hazard now. Identify the hazard and discuss which elements of Risk-Based Process Safety could have been involved in the development of this situation.

- A. No hazard exists because the relief valve will always protect the system
- **B. The rupture disc may have failed or leaked, compromising the relief system and creating overpressure risk**
- C. The system is operating normally under transient conditions
- D. The pressure gauge is faulty and can be ignored

Answer: B

Explanation:

The correct answer is B because a pressure reading between the rupture disc and relief valve—where it should normally be zero—indicates that the rupture disc has likely failed or is leaking. This creates a serious hazard because the pressure relief valve (PRV) may no longer function as intended, especially if backpressure builds up or if the system configuration compromises its ability to relieve safely. This condition can lead to loss of overpressure protection, increasing the risk of vessel rupture or explosion. From a CCPS RBPS perspective, several elements are implicated. Mechanical Integrity is central, as the rupture disc may not have been properly inspected, maintained, or replaced. Operating Procedures and Training and Performance Assurance are also relevant, as operators must recognize abnormal readings and respond appropriately. Hazard Identification and Risk Analysis (HIRA) should have considered failure modes such as rupture disc leakage and its impact on relief system performance. Additionally, Management of Change (MOC) could be involved if modifications or replacements were made without proper review. This scenario highlights how degradation or failure of protective devices, combined with gaps in multiple RBPS elements, can undermine critical safety layers and lead to potentially catastrophic consequences.

NEW QUESTION # 35

Which of the following sets of inputs should be considered when developing Operating Procedures?

- A. Utility Costs, Process Safety Management Reviews, Union Contract
- **B. Equipment Manufacturer recommendation, Process Design Basis, Lessons Learned**
- C. Six Sigma, Lean Manufacturing, Product Pricing
- D. Geographical Location, Research and Development, Stakeholder Outreach

Answer: B

Therefore, using technical design data, vendor guidance, and historical learning ensures procedures are accurate, practical, and aligned with safe operation requirements.

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