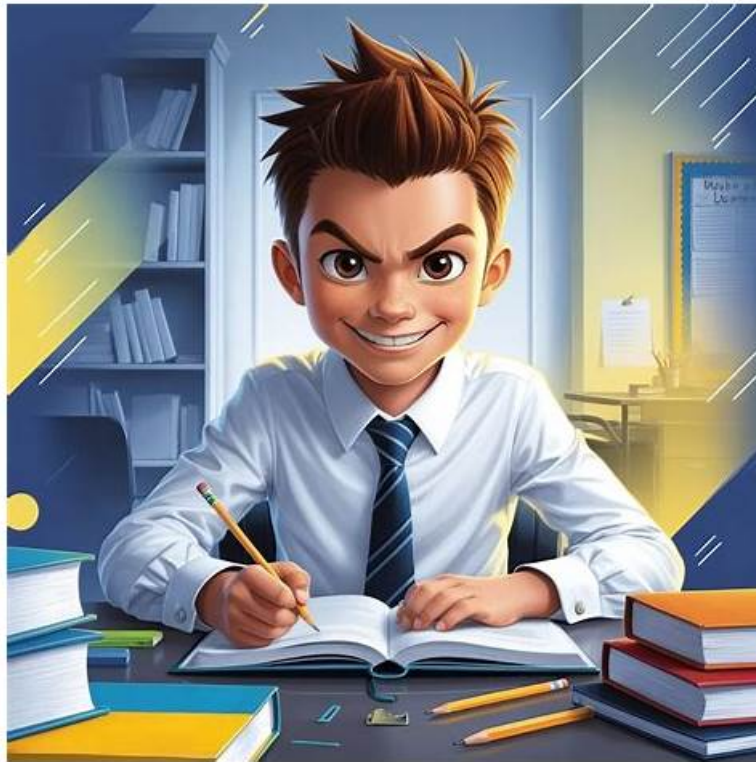


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## AIChE CCPS Process Safety Professional Certification Sample Questions (Q104-Q109):

### NEW QUESTION # 104

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 must be designed to fail open
- B. Valve must be designed to open quickly enough to quench the reaction
- C. Valve and its control system must be inspected and tested with sufficient frequency to confirm that it will reliably open

when required

- D. Valve must be functionally tested to ensure that it opens quickly enough to quench the reaction

**Answer: C,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 # 105

A facility is selecting an inerting procedure for one of its large reactors. Which inerting method would be expected to require the greatest nitrogen consumption?

- A. Siphon purging
- B. Pressure purging
- C. Sweep through purging
- D. Vacuum purging
- E. Vacuum/pressure purging

**Answer: C**

Explanation:

The correct answer is C (Sweep through purging) because it is the least efficient inerting method in terms of inert gas consumption, as described in CCPS guidance on inerting and purging practices.

In sweep through purging, nitrogen is continuously introduced into the vessel while the existing gas mixture is displaced and vented. This method relies on dilution rather than compression or evacuation, meaning that large volumes of nitrogen are required to achieve the desired reduction in oxygen concentration. The inefficiency arises because complete mixing is assumed, and multiple vessel volume exchanges are needed.

In contrast, pressure purging (B) and vacuum purging (A) are significantly more efficient. Pressure purging uses repeated pressurization and venting cycles to reduce oxygen concentration, while vacuum purging removes gases before backfilling with nitrogen. The most efficient method is typically combined vacuum/pressure purging (D), which minimizes nitrogen usage by leveraging both techniques.

Siphon purging (E) is not a commonly recognized CCPS inerting method for gas-phase systems.

CCPS emphasizes selecting inerting methods based on vessel design, pressure capability, safety requirements, and gas consumption efficiency. For large vessels, minimizing nitrogen usage is often important for both cost and operational practicality.

#### NEW QUESTION # 106

What are some outputs of a Management of Change review? (Select all that apply)

- A. Appropriate revisions or updates to procedures
- B. Authorized change request
- C. Updates to process safety information
- D. Revision to related training

**Answer: A,B,C,D**

Explanation:

The correct answers are A, B, C, and D because all listed options represent typical and required outputs of an effective Management of Change (MOC) review as defined by CCPS Risk-Based Process Safety.

A (updates to process safety information) is a fundamental output. Any change affecting process conditions, equipment, or materials must be reflected in documents such as P & IDs, datasheets, and design bases to ensure accuracy and safe operation.

B (authorized change request) is the formal approval that confirms the change has been properly reviewed, risks evaluated, and necessary safeguards identified before implementation. CCPS stresses that no change should proceed without proper authorization.

C (revision to related training) is critical because personnel must understand the change and its implications. Training ensures operators and maintenance staff can safely operate and maintain modified systems.

D (updates to procedures) ensures that operating, maintenance, and emergency procedures remain aligned with the current system configuration. Outdated procedures are a common cause of incidents.

CCPS emphasizes that MOC is not just about approving changes but ensuring all downstream impacts are addressed- documentation, training, procedures, and system readiness-before startup. These outputs collectively ensure that risks introduced by change are effectively managed and controlled.

#### NEW QUESTION # 107

A contract company that has never worked at your site is the only contract company technically capable of performing a critical task at your site. The contract company's safety record is well below your company's safety performance criteria. What activities do you take while they are working on-site? (select all that apply)

- A. Conduct frequent observations of the worksite and stop any unsafe work, then provide timely feedback to the contract company on the observed safety issues
- B. If significant safety issues occur, stop all of the contract company work at the site and discuss/retrain as needed
- C. Investigate and document any safety issues with the contract company activities
- D. Meet with the management of the contract company after the completion of the project to discuss their safety performance onsite
- E. Participate in job pre-plan activities daily with the contract company workers to understand the work they will be performing and their plan to do it safely

**Answer: A,B,C,E**

Explanation:

The correct answers are A, C, D, and E because CCPS emphasizes that when working with contractors- especially those with poor safety performance -organizations must apply enhanced oversight, active engagement, and strict control measures .

Option A is critical because daily pre-job planning and communication ensure that hazards are understood and safe work practices are clearly defined before work begins.

Option C is correct because immediate intervention is required when serious safety issues arise. Stopping work prevents escalation and allows for retraining or corrective action, which aligns with CCPS principles of risk control.

Option D is also essential because active field observation and intervention help identify unsafe behaviors or conditions in real time. Providing immediate feedback reinforces safe practices and corrects deviations.

Option E is correct because incident investigation and documentation are necessary for learning and ensuring accountability. This supports continuous improvement and future contractor management decisions.

Option B , while useful, occurs after the work is complete and does not directly contribute to controlling risks during execution. CCPS stresses that contractor safety requires ongoing monitoring, communication, and intervention , especially when risk levels are elevated.

#### NEW QUESTION # 108

Discuss the advantages and disadvantages of using competent third-party auditors for facility process safety audits.

- A. Third-party auditors only provide benefits with no disadvantages
- B. Third-party auditors are always less effective than internal auditors
- C. Third-party auditors provide independence but may lack site-specific knowledge and can be costly
- D. Third-party auditors eliminate the need for internal audits

**Answer: C**

Explanation:

The correct answer is B because CCPS recognizes both benefits and limitations of using competent third- party auditors within the Process Safety Auditing element of RBPS.

A primary advantage is independence and objectivity . Third-party auditors are not influenced by internal organizational culture, familiarity, or bias, making them more likely to identify systemic weaknesses, normalization of deviance, and overlooked risks .

CCPS highlights that this independence enhances credibility

, especially with regulators and external stakeholders. Additionally, external auditors often bring broad industry experience and benchmarking insights, allowing facilities to compare practices against recognized good engineering practices (RAGAGEP). However, there are also disadvantages. Third-party auditors may have limited familiarity with site-specific processes, equipment, and organizational nuances, which can lead to misunderstandings or less practical recommendations. They can also be costly, particularly for smaller organizations. Furthermore, their presence may sometimes affect workforce openness during interviews. CCPS emphasizes that the most effective audit approach often involves a balance, combining external auditors for independence and internal personnel for site knowledge. This ensures audits are both objective and practically relevant, leading to more actionable and meaningful improvements in process safety performance.

## NEW QUESTION # 109

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