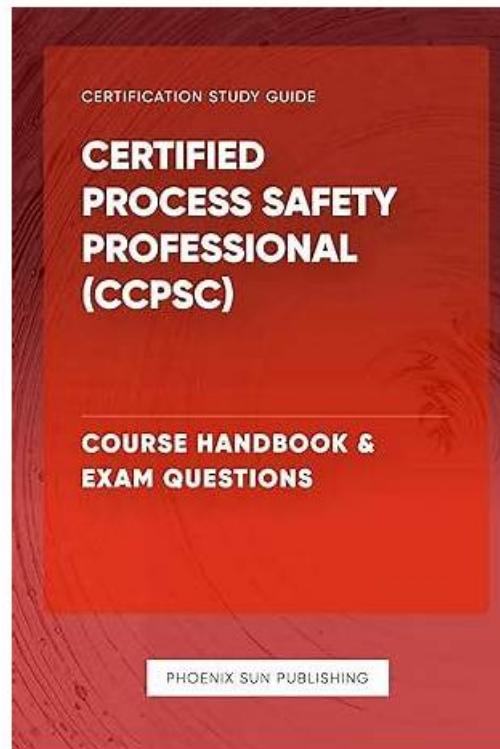


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## AICHE CCPS Process Safety Professional Certification Sample Questions (Q90-Q95):

### NEW QUESTION # 90

The training for maintenance personnel only needs to cover the testing and maintenance procedures of the specific equipment they service, true or false?

- A. False
- B. True

**Answer: A**

Explanation:

The correct answer is B (False) because CCPS emphasizes that maintenance personnel require comprehensive training beyond just equipment-specific procedures .

While understanding testing and maintenance procedures is essential, maintenance personnel must also be trained in process safety hazards, safe work practices, and the broader system in which the equipment operates

. This includes knowledge of hazardous chemicals, energy sources, isolation procedures (e.g., lockout/tagout), confined space entry, and the potential consequences of equipment failure.

CCPS highlights that maintenance work often involves intrusive activities that can introduce significant risk, such as opening process systems or bypassing safeguards. Therefore, personnel must understand not only

"how" to perform a task but also "why" it must be done safely and what could go wrong .

Additionally, training should include recognition of abnormal conditions, emergency response actions, and the impact of maintenance on process safety systems . Limiting training only to procedures would leave critical knowledge gaps and increase the likelihood of incidents.

Thus, effective maintenance training must ensure full competency in both technical tasks and process safety principles , aligning with CCPS guidance for mechanical integrity and workforce competency.

### NEW QUESTION # 91

What minimum size is normally used for laboratory test apparatus to determine dust explosion severity?

- A. 1 cubic meter
- B. 50 liters
- C. 5 liters
- D. 20 liters

**Answer: D**

Explanation:

The correct answer is C (20 liters) because the 20-liter sphere apparatus is the widely accepted standard for determining dust explosion severity parameters , including K<sub>st</sub> (deflagration index) and P<sub>max</sub> (maximum explosion pressure) .

According to CCPS and industry standards (such as ASTM and ISO methods), the 20-liter test chamber provides a controlled, repeatable environment for evaluating the explosibility characteristics of combustible dusts. It represents a balance between laboratory practicality and representative explosion behavior , making it suitable for routine testing.

Smaller volumes such as 5 liters (A) are generally not sufficient to accurately capture explosion dynamics and may produce less reliable results. Larger vessels such as 1 cubic meter (B) are sometimes used for more detailed or confirmatory testing, but they are not typically considered the minimum standard due to cost and complexity. Option D (50 liters) is not a recognized standard for this purpose.

CCPS emphasizes that understanding dust explosibility is essential for hazard identification, equipment design, and mitigation strategies , including explosion venting, suppression, and isolation systems. The 20- liter sphere has become the industry benchmark for generating reliable and comparable dust explosion data.

### NEW QUESTION # 92

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

- A. Third-party auditors are always less effective than internal auditors
- B. Third-party auditors only provide benefits with no disadvantages
- 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 # 93

□ This heater was severely damaged during startup as a result of a firebox explosion. The operator had difficulty with the instrumentation and decided to complete the startup by bypassing the interlocks. The main gas valve was opened and gas filled the heater while the pilots were off.

Upon lighting of the pilots, the heater exploded destroying the casing and damaging several tubes. Identify and discuss what elements of Risk-Based Process Safety, had they been implemented more effectively, could have reduced or eliminated the likelihood of this event occurring or reduced the consequences.

- A. Multiple elements including Operating Procedures, Management of Change, Training, Asset Integrity, and Process Safety Culture were involved
- B. Only Mechanical Integrity was involved
- C. No RBPS elements could have prevented this incident
- D. Only Emergency Management was involved

**Answer: A**

Explanation:

The correct answer is C because this incident clearly involves multiple failures across several RBPS elements

, not a single-point breakdown. According to CCPS, major incidents typically result from combined weaknesses across systems .

Operating Procedures and Safe Work Practices were inadequate or not followed, as proper startup procedures should strictly prohibit bypassing safety interlocks and require verification of pilot ignition before introducing fuel gas. Management of Change (MOC) is relevant because bypassing interlocks constitutes a temporary change that should require formal authorization, risk assessment, and safeguards.

Training and Performance Assurance is critical, as the operator did not fully understand the hazard of gas accumulation in the firebox or the consequences of bypassing safeguards. Asset Integrity and Reliability also contributed, since instrumentation problems triggered the unsafe decision, indicating possible maintenance or reliability issues.

Additionally, Hazard Identification and Risk Analysis (HIRA) should have identified this scenario (fuel gas accumulation before ignition) as a credible hazard requiring strong safeguards. Finally, Process Safety Culture played a role, as bypassing interlocks suggests normalization of unsafe practices or production pressure overriding safety.

This event illustrates a classic breakdown of layers of protection , where both technical and organizational controls failed simultaneously, leading to a catastrophic explosion.

#### NEW QUESTION # 94

The following groups may provide information required for the Process Knowledge Management element (select all that apply)

- A. External engineering firms
- B. Process equipment vendors

- C. Local emergency responders
- **D. Corporate research and development function**

**Answer: A,B,D**

Explanation:

The correct answers are A, B, and C because Process Knowledge Management (PKM) requires collecting and maintaining accurate technical information from all relevant and credible sources involved in process design, operation, and development.

Process equipment vendors (A) are a key source of detailed equipment design data, operating limits, materials of construction, and performance specifications. This information is essential for safe operation and maintenance.

External engineering firms (B) contribute critical knowledge related to process design, system integration, hazard considerations, and technical calculations. They often develop PFDs, P & IDs, and design basis documents, all of which are core PKM components.

Corporate research and development (C) provides essential data on chemical properties, reaction kinetics, hazards, and scale-up considerations. This information is particularly important for understanding process chemistry and potential risks.

Option D (Local emergency responders) is incorrect because, while they play an important role in Emergency Management, they are not a primary source of process knowledge such as chemical, design, or engineering data required under PKM.

CCPS emphasizes that PKM must integrate information from multiple technical sources to ensure completeness, accuracy, and accessibility, forming the foundation for hazard analysis, safe operations, and risk management.

## NEW QUESTION # 95

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