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## AIChE CCPS Process Safety Professional Certification Sample Questions (Q40-Q45):

### NEW QUESTION # 40

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

**Answer: D,E**

#### NEW QUESTION # 41

Identifying potential change situations is characteristic of:

- A. Operational Readiness
- B. Hazard Identification and Risk Analysis
- **C. Management of Change**
- D. Process Knowledge Management
- E. Management Review and Continuous Improvement

**Answer: C**

Explanation:

The correct answer is D (Management of Change) because a core function of the MOC element is to identify, recognize, and manage situations where changes occur that could impact process safety.

CCPS emphasizes that one of the most critical steps in an effective MOC system is the early identification of what constitutes a "change." This includes not only obvious changes (equipment modifications, new chemicals, process conditions) but also less obvious ones such as procedural updates, organizational changes, or temporary modifications. Failure to recognize a change can lead to bypassing the MOC process entirely, introducing unmanaged risks.

Option A (Process Knowledge Management) focuses on maintaining accurate technical information, not identifying changes. Option B (Operational Readiness) ensures systems are ready for startup but does not focus on recognizing change situations. Option C (Management Review) evaluates performance at a higher level. Option E (Hazard Identification and Risk Analysis) evaluates hazards but does not specifically identify when a change has occurred.

CCPS highlights that effective MOC begins with clear definitions, awareness, and training so personnel can recognize when a change is taking place, ensuring it is properly reviewed, approved, and safely implemented.

#### NEW QUESTION # 42

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

**Answer: A,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 # 43

Which of the following statements apply to the purpose of an incident investigation? (Select all that apply)

- A. To document all injuries as process safety incidents
- B. To determine who should be disciplined for causing the event
- C. To prevent reoccurrence of the same or similar process safety incidents
- D. To help continually improve the process safety management efforts

**Answer: C,D**

Explanation:

The correct answers are A and C because CCPS defines the primary purpose of incident investigation as learning and prevention, not blame or administrative classification.

A (continuous improvement) is a core objective. CCPS emphasizes that incident investigations should identify system weaknesses, gaps in safeguards, and management system deficiencies. The findings are used to strengthen process safety programs, improve procedures, enhance training, and refine risk controls.

C (prevent recurrence) is the fundamental goal. Investigations focus on identifying root causes and contributing factors to ensure that similar incidents do not happen again. This includes both immediate causes and deeper organizational or systemic issues.

Option B is incorrect because CCPS promotes a no-blame or just culture approach. The focus is not on assigning fault or discipline but on understanding why defenses failed. Blame-oriented investigations discourage reporting and hinder learning.

Option D is also incorrect because not all injuries are classified as process safety incidents. CCPS distinguishes between occupational safety (e.g., slips, trips) and process safety events (loss of containment of hazardous materials). The purpose of investigation is not merely documentation but learning and prevention.

Overall, incident investigation is a critical feedback loop in RBPS for continuous risk reduction and organizational learning.

#### NEW QUESTION # 44

All three flammable gas detection alarms have indicated in the control room the presence of a flammable vapor in the containment area below a horizontal butane storage tank. The correct operator response to this emergency would include (select all that apply):

- A. Notify management of the situation
- B. Notify workers to leave the butane tank area
- C. Remotely activate the tank area deluge system, if one exists
- D. Deploy an operator with a combustible gas meter to determine the extent of the flammable cloud
- E. Remotely isolate the inlet and outlet lines of the butane tank, if this capability exists

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

Explanation:

The correct answers are A, B, D, and E because they reflect safe and appropriate emergency response actions aligned with CCPS guidance for handling flammable vapor releases.

Option A is critical because personnel must be evacuated immediately from areas where flammable gas is detected to prevent injury or fatality in case of ignition.

Option B is correct because isolating the source of the release (if it can be done remotely) helps stop or reduce the leak without exposing personnel to danger.

Option D is also appropriate because activating a deluge system can help disperse vapors and reduce ignition risk by cooling and diluting the flammable cloud.

Option E is correct because communication and escalation are essential parts of emergency management, ensuring proper coordination and response.

Option C is incorrect because sending personnel into a potentially flammable atmosphere is dangerous. CCPS strongly discourages exposing workers to hazardous conditions during an active release, especially when safer remote methods are available.

Overall, CCPS emphasizes protecting personnel first, controlling the hazard remotely, and using engineered safeguards, while avoiding unnecessary exposure during emergencies.

## NEW QUESTION # 45

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In the era of informational globalization, the world has witnessed climax of science and technology development, and has enjoyed the prosperity of various scientific blooms. In 21st century, every country had entered the period of talent competition, therefore, we must begin to extend our CCPSC personal skills, only by this can we become the pioneer among our competitors. We here tell you that there is no need to worry about. Our CCPSC Actual Questions are updated in a high speed. Since the date you pay successfully, you will enjoy the CCPSC test guide freely for one year, which can save your time and money. We will send you the latest CCPSC study dumps through your email, so please check your email then.

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