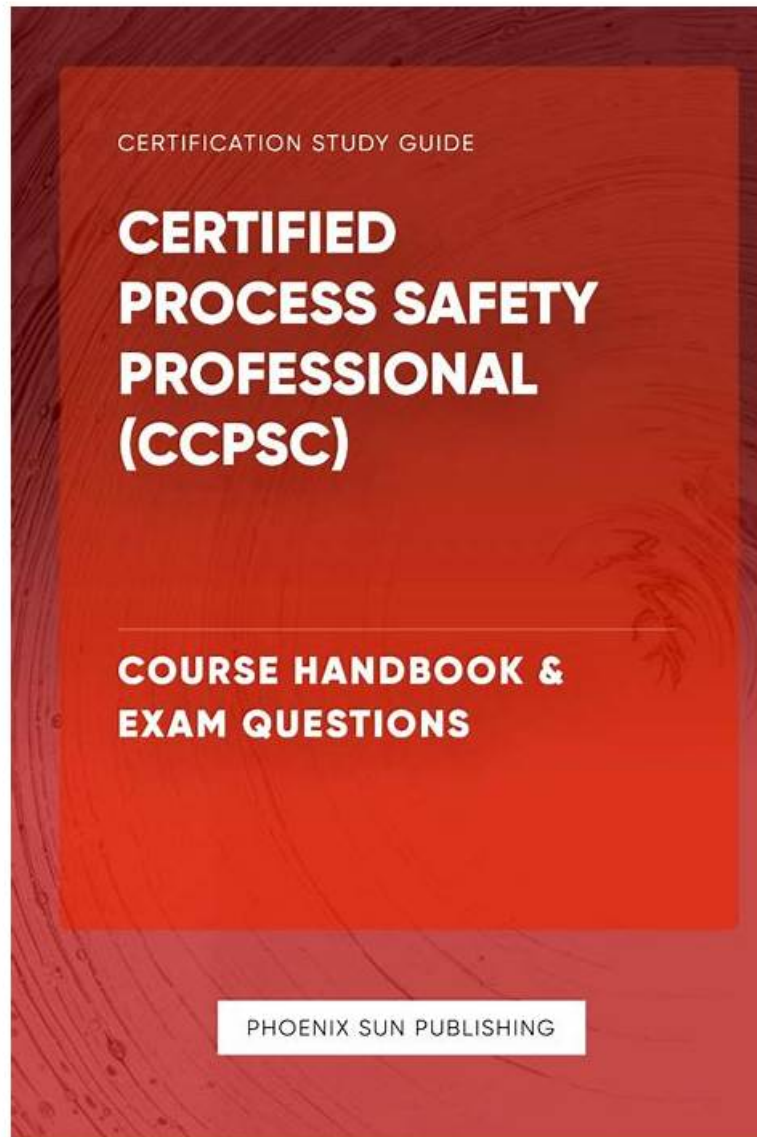


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## AICHE CCPSC Reliable Test Pattern, Latest CCPSC Exam Objectives

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are to be learned more.

## AICHE CCPS Process Safety Professional Certification Sample Questions (Q79-Q84):

### NEW QUESTION # 79

The Accident Pyramid indicates:

- A. That for every accident fatality there are many "near misses"
- B. A graphical illustration of major incidents
- C. How Murphy's law operates
- D. That for every minor accident there are many accidents of greater consequences

**Answer: A**

Explanation:

The correct answer is A because the Accident Pyramid (also known as Heinrich's Pyramid or the Safety Triangle) illustrates the relationship between near misses, minor incidents, and major accidents. According to CCPS and traditional safety theory, for every serious or fatal accident, there are many more low-consequence events and near misses that occur but do not result in harm. This concept is fundamental to process safety metrics and learning systems, as it emphasizes that organizations should not only focus on major incidents but also actively track and investigate near misses and minor events. These lower-level events provide valuable insight into system weaknesses and potential failure pathways before a catastrophic incident occurs. Option B is incorrect because Murphy's law is unrelated to structured safety analysis. Option C reverses the logic of the pyramid—minor incidents are far more frequent than major ones, not the other way around. Option D is incorrect because the pyramid represents a range of incident severities, not just major incidents. CCPS uses this concept to promote proactive safety management, encouraging organizations to learn from small failures and near misses to prevent escalation into severe process safety events.

### NEW QUESTION # 80

A pilot operated relief device operates when: (select all that apply)

- A. the set pressure is reached even when there is high back pressure
- B. the valve is opened manually by the operator
- C. when the valve diaphragm ruptures
- D. a regulator opens and releases the pressure behind the valve seat

**Answer: A,D**

Explanation:

The correct answers are A and D because they describe the fundamental operating principle of a pilot-operated relief valve (PORV), as recognized in CCPS guidance on pressure relief systems within Mechanical Integrity. A pilot-operated relief valve uses a pilot (small control valve or regulator) to control the pressure acting on the main valve. Under normal conditions, system pressure is applied to keep the main valve tightly closed. When the system pressure reaches the set pressure, the pilot valve opens, which vents or releases pressure from above (or behind) the main valve seat. This creates a pressure imbalance that allows the main valve to open rapidly—this corresponds directly to D. Additionally, A is correct because pilot-operated valves are designed to maintain set pressure accuracy even in the presence of backpressure, unlike conventional spring-loaded relief valves, which can be significantly affected by backpressure. This makes PORVs advantageous in systems with variable or high backpressure. Options B and C are incorrect. Diaphragm rupture is a failure mode, not a normal operating mechanism, and manual opening is not how pilot-operated relief valves function during automatic overpressure protection. CCPS emphasizes understanding device operating principles to ensure correct application, reliability, and proper maintenance of pressure relief systems.

### NEW QUESTION # 81

After an incident with fatal consequences, you are requested by top management to form an investigation team. Who of the following would be the most suitable candidate to lead the company investigation?

- A. The integrity and maintenance supervisor

- B. An authorized off-site company resource
- C. A representative of the contractor that was performing the task when the accident occurred
- D. The lead process engineer of the plant
- E. The plant manager

**Answer: B**

Explanation:

The correct answer is D (An authorized off-site company resource) because CCPS emphasizes that serious incident investigations- especially those involving fatalities or major consequences -should be led by an individual who is independent, unbiased, and highly trained in investigation methodologies .

An off-site resource provides objectivity and impartiality , which is critical when investigating high-severity incidents. Internal personnel such as the plant manager (A), maintenance supervisor (B), or lead process engineer (C) may have direct or indirect involvement , organizational bias, or conflicts of interest that could influence findings or limit openness during interviews.

Option E (contractor representative) is also not appropriate as a leader due to potential bias and limited system-wide perspective. CCPS guidance stresses that investigation leaders should have expertise in root cause analysis techniques , strong facilitation skills, and the authority to conduct a thorough and credible investigation. Independence helps ensure that findings focus on system failures rather than individual blame , aligning with a just culture approach.

While internal personnel should be part of the investigation team for technical input, leadership by an independent, qualified individual enhances credibility, ensures rigor, and supports organizational learning and prevention of future incidents.

#### NEW QUESTION # 82

A toxic release occurs. Which conditions are more likely to result in the highest downwind concentration at a given distance?

- A. 1.5 m/s wind speed, Pasquill Class F stability
- B. 3 m/s wind speed, Pasquill Class D stability
- C. 3 m/s wind speed, Pasquill Class F stability
- D. 5 m/s wind speed, Pasquill Class D stability

**Answer: A**

Explanation:

The correct answer is A (1.5 m/s wind speed, Pasquill Class F stability) because this combination produces the least atmospheric dispersion , resulting in the highest downwind concentration of a toxic release.

CCPS explains that atmospheric dispersion depends heavily on wind speed and atmospheric stability class .

Pasquill Class F represents very stable atmospheric conditions (typically nighttime with low wind), where vertical and lateral mixing is minimal. This causes released material to remain concentrated in a narrow plume rather than dispersing.

Low wind speed ( 1.5 m/s ) further reduces dilution because the plume moves slowly and experiences limited mixing with surrounding air. As a result, contaminants remain more concentrated over a longer distance .

In contrast, higher wind speeds ( 5 m/s ) and more neutral conditions ( Class D ) promote turbulence and mixing, which dilute the plume and reduce concentration. Even though option C also uses Class F stability, the slightly higher wind speed (3 m/s) results in more dispersion than in option A.

CCPS

emphasizes that worst-case toxic dispersion scenarios typically assume low wind speed and stable atmospheric conditions , as these produce the highest potential exposure levels and are critical for emergency planning and risk assessment.

#### NEW QUESTION # 83

Leading process safety metrics can help: (select all that apply)

- A. Reduce slips, trips, and falls in the plant
- B. Identify needed adjustments to Risk Based Process Safety element activities before development of a failed state
- C. Identify evolving management system weaknesses
- D. Target auditing activities

**Answer: B,C,D**

Explanation:

The correct answers are A, B, and D because leading indicators are designed to provide early warning signals of process safety performance , allowing organizations to act before incidents occur.

Option A is correct because leading metrics help identify weaknesses or degradation in management systems, such as declining inspection completion rates, overdue training, or poor MOC compliance. These indicators reveal problems before they result in incidents.

Option B is also correct because leading indicators support proactive decision-making, enabling organizations to adjust RBPS activities (e.g., maintenance, training, hazard reviews) before a loss of containment or failure event occurs. This is a fundamental goal of process safety management.

Option D is correct because leading metrics can be used to focus and prioritize auditing efforts. For example, areas with declining performance indicators can be targeted for deeper review or corrective actions.

Option C is incorrect because slips, trips, and falls are occupational safety issues, not process safety concerns.

Leading process safety metrics are specifically intended to monitor low-frequency, high-consequence risks, not general workplace safety incidents.

CCPS emphasizes that leading indicators are essential for proactive risk management, helping organizations prevent incidents rather than reacting after they occur.

## NEW QUESTION # 84

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