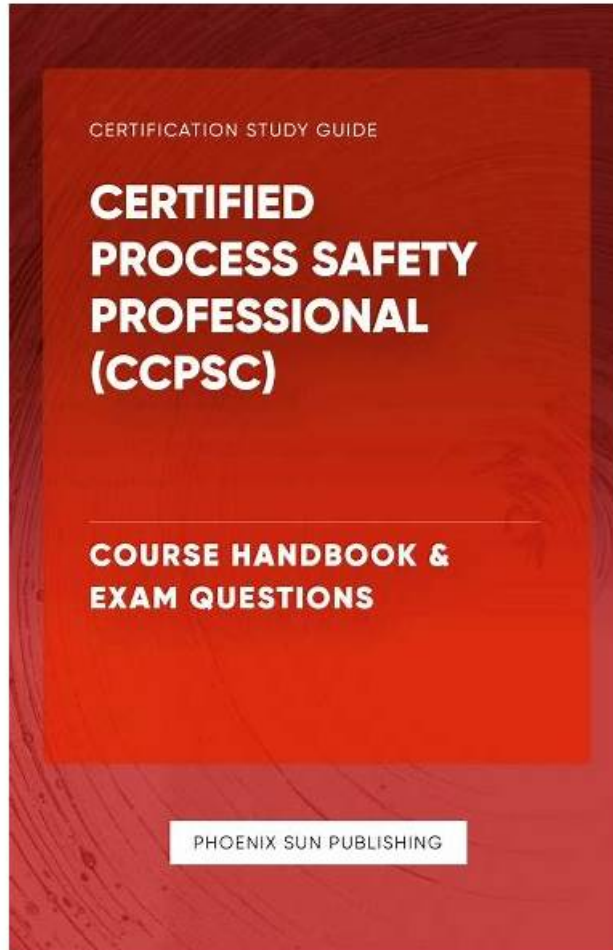


# CCPSC真題材料 - CCPSC考試重點



我相信不論在哪個行業工作的人都希望自己有很好的職業前景。當然在競爭激烈的IT行業裏面也不例外。在IT行業中工作的專業人士也希望自己有個很好的提升機會和很大的提升空間。很多專業的IT人士都知道AICHE CCPSC 認證考試可以幫你滿足這些願望的。而NewDumps是一個能幫助你成功通過AICHE CCPSC 的網站。

AICHE的CCPSC認證考試是現在IT領域非常有人氣的考試。取得這個考試的認證資格對想晉升的人們來說是最好的，也是最可以看到效果的選擇。而且，借助這個考試你也可以提高自己的技能，掌握更多的對工作有用的技術。這樣你就可以更好地完成你的工作，向別人展示你的超強的能力。也只有这样你才可以获得更多的发展机会。

>> CCPSC真題材料 <<

## CCPSC考試重點 & CCPSC熱門題庫

您是否在尋找可靠的學習資料來準備即將來的CCPSC考試？如果是的話，您可以嘗試NewDumps的產品和服務。我們提供最新的AICHE CCPSC考古題是經過眾多考生和專家檢驗過的學習指南，保證成功率百分之百的考古題。對於購買CCPSC題庫產品的客戶，我們還提供一年的免費更新服務。所以，您不必擔心，AICHE CCPSC學習指南不僅讓您更準確的了解考試的出題點，還能讓您更有範圍的學習相關知識，高效率的通過CCPSC考試。

## 最新的 AIChE CCPS CCPSC 免費考試真題 (Q38-Q43):

### 問題 #38

For a vapor explosion in an unconfined and uncongested area, the amount of thermodynamic energy that ends up in the overpressure is approximately:

- A. 0%
- B. 100%
- C. 10-15%
- D. 50-75%
- E. 2-5%

答案: E

解題說明:

The correct answer is D (2-5%) because, according to CCPS guidance on vapor cloud explosions (VCEs), only a small fraction of the total thermodynamic energy released during combustion is converted into blast overpressure in unconfined and uncongested conditions.

In such scenarios, the combustion process occurs relatively slowly (deflagration rather than detonation), and much of the energy is dissipated as heat, light, and expansion of gases, rather than contributing to pressure waves. As a result, only about 2-5% of the total energy is typically available to generate damaging overpressure effects.

Higher energy conversion efficiencies (such as 10% or more) are generally associated with congested or confined environments, where obstacles (pipes, equipment, structures) promote turbulence and flame acceleration, significantly increasing overpressure. In contrast, an open and uncongested area limits turbulence, reducing explosion severity.

Options A, B, and C significantly overestimate the fraction of energy contributing to blast effects, while E (0%) is incorrect because some overpressure is always generated.

CCPS emphasizes understanding explosion efficiency when performing consequence analysis, as it is a key factor in predicting blast damage and designing appropriate safeguards.

### 問題 #39

Individuals presenting information on a Risk Based Process Safety element during a Management Review are expected to: (select all that apply)

- A. Identify accident root causes
- B. Answer questions about the implementation of the element
- C. Offer potential improvement opportunities for the element, where warranted
- D. Conduct annual certification of operating procedures
- E. Present performance metrics for the element

答案: B,C,E

解題說明:

The correct answers are B, C, and D because they align with the purpose of Management Review within RBPS, which is to evaluate performance, ensure accountability, and drive continuous improvement.

Option D is fundamental because presenters are expected to provide performance metrics, including both leading and lagging indicators, to demonstrate how well the element is functioning. These metrics form the basis for informed decision-making.

Option C is also correct because presenters must be able to explain and clarify how the element is implemented, including processes, challenges, and effectiveness. This allows management to fully understand the current state of the system.

Option B is correct because management review is a key opportunity to identify gaps and propose improvements. Presenters are expected to recommend actions that enhance performance and reduce risk.

Option A is incorrect because identifying root causes is part of incident investigation, not the primary responsibility during management review presentations. Option E is also incorrect because certification of procedures is an operational activity, not part of management review.

CCPS emphasizes that management review is a strategic oversight function, focusing on performance, understanding, and improvement-not execution tasks.

### 問題 #40

What are the main objectives for conducting a Process Safety Management audit? (Select all that apply)

- A. Prepare an emergency response plan
- B. Reduce process safety risks
- C. Certify that all Operating Procedures are correct and up-to-date
- D. Identify program improvement opportunities
- E. Verify effectiveness of Risk-Based Process Safety management systems

答案： B,D,E

解題說明：

The correct answers are A, B, and C because CCPS defines audits as a critical RBPS activity used to evaluate system performance, ensure effectiveness, and drive continuous improvement .

Option A is correct because audits ultimately aim to reduce process safety risks by identifying weaknesses in management systems before incidents occur. While audits do not directly eliminate hazards, they highlight deficiencies that, when corrected, reduce risk exposure.

Option B is central to the purpose of auditing. CCPS emphasizes that audits are conducted to verify whether Risk-Based Process Safety (RBPS) systems are properly implemented and functioning as intended . This includes checking compliance with internal standards, regulatory requirements, and best practices.

Option C is also correct because audits are a key tool for continuous improvement . They help organizations identify gaps, inefficiencies, and opportunities to strengthen process safety programs.

Option D is incorrect because preparing emergency response plans is part of the Emergency Management element, not an audit objective. Option E is incorrect because audits may review procedures, but they do not

"certify" every procedure as correct; rather, they assess whether systems exist to maintain and update them.

Thus, CCPS positions audits as assurance and improvement tools , not execution or certification mechanisms.

#### 問題 #41

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 system is operating normally under transient conditions
- C. The pressure gauge is faulty and can be ignored
- D. The rupture disc may have failed or leaked, compromising the relief system and creating overpressure risk

答案： D

解題說明：

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.

#### 問題 #42

The President of a small chemical company with only one plant states that small companies do not need the same level of Process Safety competency as larger companies. Do you agree or disagree? Explain your answer.

- A. Disagree, because only large companies experience major incidents
- B. Agree, because small companies have lower risk
- C. Disagree, because process safety competency should be based on hazard and risk, not company size
- D. Agree, because regulations are less strict for small companies

答案： C

解題說明：

The correct answer is C because CCPS clearly emphasizes that process safety competency requirements are driven by hazard and risk, not organizational size . Even small facilities can handle hazardous chemicals, high pressures, or flammable materials that present significant potential for catastrophic incidents , including fires, explosions, and toxic releases.

The RBPS element Process Safety Competency requires organizations to ensure that personnel possess the appropriate knowledge, skills, and experience to manage process risks effectively. This includes hazard identification, risk assessment, safe operation, and emergency response. These requirements apply equally to small and large organizations when similar hazards exist.

CCPS guidance also highlights that smaller companies may face greater vulnerability due to limited resources, fewer layers of oversight, and less redundancy in expertise. Therefore, maintaining strong competency is even more critical. When internal capability is limited, organizations are expected to use external experts, consultants, or industry resources to fill gaps.

Importantly, many historical incidents have occurred in smaller facilities, reinforcing that risk exposure-not company size-determines the need for robust process safety systems . Thus, all organizations must implement appropriate competency levels proportional to the hazards they manage to ensure safe and reliable operations.

### 問題 #43

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