

# CCPSC試験勉強書、CCPSC認定試験トレーニング



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知識の時代の到来により、私たちはすべて、CCPSCなどの専門的な証明書を必要としています。したがって、有用な実践教材を選択する正しい判断を下すことは非常に重要です。ここでは、心から誠実にCCPSC実践教材をご紹介します。CCPSCスタディガイドを選択した試験受験者の合格率は98%を超えているため、CCPSCの実際のテストは簡単なものになると確信しています。

>> CCPSC試験勉強書 <<

## CCPSC認定試験トレーニング、CCPSC関連日本語版問題集

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## AICHe CCPS Process Safety Professional Certification 認定 CCPSC 試験問

## 題 (Q48-Q53):

### 質問 # 48

Which of the following are evidence that good workforce involvement exists at a facility? (Select all that apply)

- A. Operators are always included on PHA teams
- B. Operators are disciplined for not following procedures
- C. Operators are expected to report minor process safety incidents
- D. Operators are consulted on the content of training programs
- E. Operators participate on incident investigation teams

正解: A、C、D、E

### 解説:

The correct answers are A, C, D, and E because CCPS defines workforce involvement as active participation, open communication, and inclusion of personnel in safety-related activities and decision-making.

Option A is correct because including operators in Process Hazard Analysis (PHA) teams ensures that practical, real-world knowledge is incorporated into hazard identification and risk evaluation.

Option C is also correct because encouraging reporting of minor incidents and near misses reflects a strong safety culture where employees feel responsible and empowered to share information without fear.

Option D is correct because operator participation in incident investigations provides valuable insights into actual operating conditions and helps identify realistic root causes.

Option E is correct because consulting operators on training program content ensures that training is relevant, practical, and aligned with actual job requirements.

Option B is incorrect because discipline alone does not indicate good workforce involvement. CCPS emphasizes a just culture, where the focus is on learning and improvement rather than punishment.

Overall, strong workforce involvement is demonstrated by engagement, inclusion, and empowerment, which enhance both safety performance and organizational learning.

### 質問 # 49

Which of the following would be most effective as a leading metric for a Management of Change program?

- A. Percentage of procedures revalidated per schedule/plan/period
- B. Percentage of work orders/requests which were misclassified as replacement-in-kind
- C. Number (or percent) of overdue inspection, testing, and preventative maintenance tasks
- D. Number of metrics for which data are collected

正解: B

### 解説:

The correct answer is B because it directly reflects the quality and effectiveness of the Management of Change (MOC) process, making it a strong leading indicator per CCPS guidance.

A key risk in MOC systems is the misclassification of changes as "replacement-in-kind" (RIK) when they actually introduce new hazards or modify process conditions. If changes are incorrectly categorized, they may bypass the formal MOC review process, meaning hazards are not evaluated, procedures are not updated, and training is not conducted. Tracking the percentage of misclassified work provides insight into how well personnel understand and apply MOC requirements and highlights weaknesses in the system before incidents occur.

Option A relates to operating procedures management, not specifically MOC effectiveness. C is an asset integrity (mechanical integrity) metric and is more of a lagging or compliance indicator. D does not measure performance or effectiveness-it only reflects data collection activity.

CCPS emphasizes that leading metrics should monitor critical activities that prevent incidents, such as correct identification and processing of changes. By identifying misclassification trends early, organizations can improve training, clarify definitions, and strengthen compliance with MOC procedures, thereby reducing process safety risk.

### 質問 # 50

Which of the following statements apply to the purpose of an incident investigation procedure? Select all that apply.

- A. To share the company's incident investigation practices with external stakeholders
- B. To define the training requirements for all incident investigation team members

- C. To provide guidance for the incident investigation team composition
- D. To promote thorough and timely incident investigations
- E. To promote uniform and accurate reporting and documentation of incidents

正解: B、C、D、E

解説:

The correct answers are A, C, D, and E because these reflect the core purposes of a structured incident investigation procedure as defined in CCPS Risk-Based Process Safety.

A (uniform and accurate reporting) is essential to ensure consistency in how incidents are documented, enabling effective analysis, trending, and organizational learning.

C (defining training requirements) ensures that investigation team members are competent in methodologies such as root cause analysis, interviewing techniques, and evidence collection. CCPS emphasizes that trained investigators are critical for high-quality investigations.

D (promoting thorough and timely investigations) is a key objective. Investigations must be conducted promptly to preserve evidence and ensure accurate findings, while also being sufficiently thorough to identify root and systemic causes.

E (guidance on team composition) ensures that investigations are conducted by a multidisciplinary team with appropriate expertise and independence, which improves the quality and credibility of results.

Option B is not a primary purpose of an internal investigation procedure. While sharing lessons learned may occur, the procedure itself is designed for internal consistency, rigor, and effectiveness, not external communication.

CCPS stresses that well-defined procedures are essential to ensure investigations consistently lead to actionable insights and prevention of future incidents.

#### 質問 # 51

Which one of the following Hazard Identification and Risk Analysis (HIRA) methods is generally considered to be most quantitative in nature?

- A. Hazard and Operability (HAZOP)
- B. What-If Analysis
- C. Failure Modes and Effects Analysis
- D. What-If/Checklist Analysis
- E. Bow-Tie Analysis

正解: C

解説:

The correct answer is A (Failure Modes and Effects Analysis - FMEA) because it is generally considered the most quantitative (or semi-quantitative) among the listed HIRA methods.

FMEA systematically evaluates potential failure modes, their causes, and consequences, and assigns numerical rankings such as severity, occurrence, and detectability. These rankings are often combined into a Risk Priority Number (RPN), providing a structured and numerical basis for prioritizing risks. This quantitative scoring distinguishes FMEA from more qualitative methods.

In contrast, What-If (B) and What-If/Checklist (C) are largely qualitative brainstorming techniques, relying on team experience rather than numerical scoring. HAZOP (E) is a highly structured and systematic method but is still primarily qualitative, focusing on deviations and consequences without assigning numerical risk values. Bow-Tie Analysis (D) is mainly a visual and qualitative method, illustrating barriers and pathways between causes and consequences.

CCPS categorizes HIRA methods along a spectrum from qualitative to quantitative. FMEA lies toward the semi-quantitative end, making it particularly useful when organizations need prioritized, numerically supported risk evaluations while still maintaining practicality in application.

#### 質問 # 52

The accumulation for a relief device is:

- A. The pressure increase over the MAWP expressed as a percentage of the set pressure
- B. The pressure increase over the set pressure expressed as a percentage of the set pressure
- C. The pressure increase over the MAWP expressed as a percentage of the MAWP
- D. The pressure increase over the set pressure expressed as a percentage of the MAWP

正解: B

解説:

The correct answer is C because accumulation is defined (per CCPS and industry standards such as ASME) as the pressure increase above the relief device set pressure, expressed as a percentage of the set pressure .

When a relief device (such as a safety valve or rupture disc) activates, the system pressure is allowed to rise above the set pressure during discharge. This temporary pressure increase is called accumulation . It reflects the system's ability to safely handle overpressure while the relief device is relieving excess energy or material.

Mathematically, accumulation is calculated as:

Option A is incorrect because accumulation is not referenced to MAWP. Option B describes pressure relative to MAWP, which is not the definition of accumulation. Option D is also incorrect because it mixes MAWP and set pressure improperly.

Mathematically, accumulation is calculated as:

$$\text{Accumulation (\%)} = \frac{\text{Relieving Pressure} - \text{Set Pressure}}{\text{Set Pressure}} \times 100$$

CCPS emphasizes understanding accumulation as part of pressure relief system design , ensuring that vessels can tolerate the maximum allowable accumulation (often 10% for single relief devices under many codes) without exceeding safe limits.

### 質問 #53

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CCPSC認定試験トレーニング : <https://www.goshiken.com/AIChE/CCPSC-mondaishu.html>

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