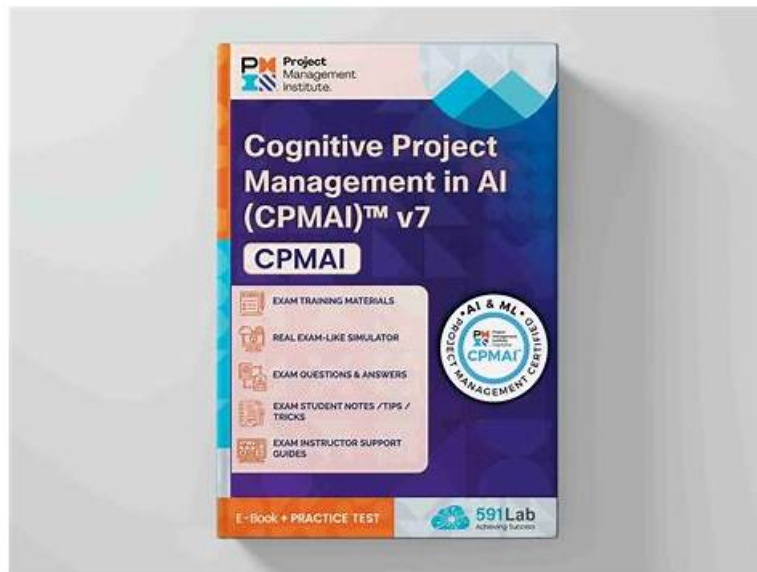


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PMI PMI-CPMAI 認定試験の出題範囲：

トピック	出題範囲
トピック 1	<ul style="list-style-type: none">• The Need for AI Project Management: This section of the exam measures the skills of an AI Project Manager and covers why many AI initiatives fail without the right structure, oversight, and delivery approach. It explains the role of iterative project cycles in reducing risk, managing uncertainty, and ensuring that AI solutions stay aligned with business expectations. It highlights how the CPMAI methodology supports responsible and effective project execution, helping candidates understand how to guide AI projects ethically and successfully from planning to delivery.
トピック 2	<ul style="list-style-type: none">• Testing and Evaluating AI Systems (Phase V): This section of the exam measures the skills of an AI Quality Assurance Specialist and covers how to evaluate AI models before deployment. It explains how to test performance, monitor for drift, and confirm that outputs are consistent, explainable, and aligned with project goals. Candidates learn how to validate models responsibly while maintaining transparency and reliability. }
トピック 3	<ul style="list-style-type: none">• Operationalizing AI (Phase VI): This section of the exam measures the skills of an AI Operations Specialist and covers how to integrate AI systems into real production environments. It highlights the importance of governance, oversight, and the continuous improvement cycle that keeps AI systems stable and effective over time. The section prepares learners to manage long term AI operation while supporting responsible adoption across the organization.
トピック 4	<ul style="list-style-type: none">• Managing Data Preparation Needs for AI Projects (Phase III): This section of the exam measures the skills of a Data Engineer and covers the steps involved in preparing raw data for use in AI models. It outlines the need for quality validation, enrichment techniques, and compliance safeguards to ensure trustworthy inputs. The section reinforces how prepared data contributes to better model performance and stronger project outcomes.

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PMI Certified Professional in Managing AI 認定 PMI-CPMAI 試験問題 (Q93-Q98):

質問 #93

A healthcare organization plans to use an AI solution to predict patient readmissions. The data science team needs to identify data sources and ensure data quality.

Which method will meet the project team's objectives?

- A. Setting up a continuous integration pipeline for real-time data validation
- B. Operationalizing a data catalog to maintain metadata standards
- C. Implementing data augmentation techniques to fill missing values
- **D. Using data profiling tools to assess data completeness**

正解: D

解説:

In PMI-CPMAI's treatment of data for AI, especially in sensitive domains like healthcare, the first responsibility of the project and data science teams is to understand and assess data quality and suitability before model development. The guidance states that AI teams should "systematically profile candidate data sources to evaluate completeness, consistency, validity, and coverage of key populations and variables relevant to the use case." Data profiling tools are highlighted as a practical means to inspect distributions, missing values, outliers, and anomalies across structured clinical, administrative, and claims data.

For a patient readmission prediction use case, PMI-CPMAI stresses that teams must identify which sources (EHR, discharge summaries, lab results, prior admissions, demographics, social determinants, etc.) are available and then "quantify data quality metrics such as completeness and timeliness to determine whether the dataset is fit for training and deployment." While techniques such as augmentation or real-time validation might be valuable later, they build upon an initial understanding obtained via profiling. Operationalizing a catalog supports governance and discovery but does not directly satisfy the immediate need to measure data quality.

Therefore, the method that best meets the objective of identifying data sources and ensuring data quality is to use data profiling tools to assess data completeness and other quality dimensions, providing an evidence-based foundation for subsequent preprocessing, feature engineering, and model training.

質問 #94

An aerospace company is integrating AI for predictive maintenance. The project manager is concerned about potential delays due to external dependencies.

Which initial step should the project manager take?

- A. Implement just-in-time inventory
- B. Increase resource allocation
- **C. Engage with multiple suppliers**
- D. Establish contingency plans

正解: C

解説:

Within the PMI Certified Professional in Managing AI (PMI-CPMAI) framework, managing external dependencies is a core component of AI project risk management, especially for industries such as aerospace where supply chains and component

availability can significantly affect timelines. PMI emphasizes that external dependency risks—such as reliance on specialized hardware, sensors, cloud services, or third-party data streams—must be addressed proactively to ensure uninterrupted AI system development and deployment.

The PMI-CPMAI Risk and Dependency Management section states that AI project managers should "identify and stabilize critical external inputs early in the lifecycle, particularly when those dependencies are single-source or highly specialized." It further highlights that mitigation begins with "diversifying suppliers or service providers to reduce the probability of bottlenecks or delays caused by external parties." This approach not only reduces vulnerability but also improves resilience and reduces procurement-related schedule risks.

Although increasing internal resources (A) or implementing just-in-time inventory (B) may optimize internal operations, they do not mitigate dependency on external providers. Establishing contingency plans (C) is important but is not the initial action; PMI guidance is clear that risk avoidance and reduction take precedence over contingency responses. The most appropriate first step, according to PMI-CPMAI, is to "engage with multiple suppliers to ensure redundancy and reduce exposure to single-point external failures."

質問 # 95

A manufacturing company is operationalizing an AI-driven quality control system. The project manager needs to ensure data privacy and regulatory compliance due to the critical nature of protecting sensitive operational data.

What is an effective technique that addresses these requirements?

- A. Utilizing a secure multiparty computation framework
- **B. Applying data anonymization to the dataset**
- C. Implementing a zero-trust architecture for network security
- D. Using a hybrid encryption scheme for storage

正解: B

解説:

PMI-CPMAI repeatedly highlights data privacy and regulatory compliance as core elements of responsible AI, particularly when operational data, trade secrets, or other sensitive information is involved. A key technique recommended in responsible data handling is data anonymization or de-identification, which reduces the risk of sensitive details being exposed while still allowing AI models to learn useful patterns.

From a governance and compliance standpoint, anonymization supports principles such as data minimization and privacy-by-design, both of which are prominent in modern regulatory regimes. Even when the data is not strictly "personal," sensitive operational data can present competitive, security, or safety risks if improperly exposed. Anonymization can involve removing or masking identifiers, aggregating data, and transforming features so that individual entities or critical operational specifics cannot be reverse-engineered, while preserving statistical utility for modeling.

Zero-trust architectures and encryption schemes (options A and D) are important security controls, but they focus primarily on controlling access and protecting data in transit or at rest, not on reducing identifiability of the data itself. Secure multiparty computation (option B) is specialized and often beyond what is pragmatically needed for typical operationalization scenarios. PMI-CPMAI's responsible AI practices emphasize anonymization as a direct and effective privacy technique. Therefore, applying data anonymization to the dataset (option C) is the most appropriate choice.

質問 # 96

In a clustering analysis for data use, the project team finds that the clusters are not meaningful and do not provide actionable insights. Which activity should the project manager do with the project team?

- A. Conduct an algorithm analysis on the data sources.
- B. Establish data governance protocols.
- C. Assess the trade-offs of the various algorithms.
- **D. Identify the data gaps and address deficiencies.**

正解: D

解説:

In the PMI approach to managing AI initiatives, clustering and other unsupervised techniques depend heavily on data quality, completeness, and relevance. When clusters are not meaningful or actionable, the primary recommended action is to reassess and improve the underlying data rather than immediately changing algorithms. PMI guidance on AI data practices emphasizes that AI teams should "ensure that datasets are sufficiently complete, representative, and aligned with the business problem before drawing conclusions from models." This includes identifying data gaps, missing attributes, bias, and noisy or inconsistent records, and then addressing these deficiencies through improved collection, integration, cleaning, and feature engineering.

The PMI-CPMAI content further stresses that data readiness assessments and iterative refinement of data are critical tasks before and during model development. Poor or incomplete data typically leads to patterns that do not map to real-world segments or behaviors, which is exactly what happens when clusters lack business meaning. While algorithm selection and trade-off analysis are also important, PMI characterizes them as secondary to ensuring that data is "fit for purpose" for the targeted use case. Therefore, the project manager should lead the team to identify data gaps and address deficiencies, which best aligns with PMI's emphasis on data quality as the foundation of reliable AI outcomes.

質問 # 97

A financial services firm is integrating AI to enhance fraud detection. To oversee data evaluation, the project manager needs to ensure the integrity and accuracy of input data, including transaction histories and customer profiles. Which method provides the results that address the requirements?

- A. Using a fact checklist to systematically verify data sources
- B. Applying a visualization generator to create data flow diagrams
- C. Implementing alternative approaches to process data differently
- D. Utilizing a prompt pattern to guide the AI model's training process

正解: A

解説:

In AI initiatives for financial fraud detection, PMI-style AI data governance emphasizes that the integrity, provenance, and reliability of input data must be established before modeling. Transaction histories and customer profiles are high-risk, regulated data, so the project manager is expected to apply structured, repeatable verification methods rather than ad hoc checks. A fact checklist to systematically verify data sources directly supports this requirement. Such a checklist typically includes validation of data origin (systems of record), timeliness, completeness, consistency across systems, documentation of transformations, and confirmation that data has not been tampered with in transit or storage.

Within an AI governance framework, these checklists form part of data control evidence, supporting auditability and regulatory compliance. They also help uncover misalignments such as missing transaction fields, inconsistent customer IDs, or unexplained gaps in history—all of which can materially degrade model accuracy and fairness. In contrast, prompt patterns (option A) address LLM behavior rather than data integrity; alternative processing approaches (option C) do not ensure correctness of the underlying data; and visualization of data flows (option D) helps understanding architecture but does not validate the truthfulness or accuracy of the data itself. Therefore, using a fact checklist to systematically verify data sources is the method that best addresses the need to ensure data integrity and accuracy.

質問 # 98

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