

PMI-CPMAI Exam Simulation: PMI Certified Professional in Managing AI & PMI-CPMAI Training Materials



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PMI PMI-CPMAI Exam Syllabus Topics:

| Topic | Details |
|---------|--|
| Topic 1 | <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. |
| Topic 2 | <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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| Topic 3 | <ul style="list-style-type: none"> Iterating Development and Delivery of AI Projects (Phase IV): This section of the exam measures the skills of an AI Developer and covers the practical stages of model creation, training, and refinement. It introduces how iterative development improves accuracy, whether the project involves machine learning models or generative AI solutions. The section ensures that candidates understand how to experiment, validate results, and move models toward production readiness with continuous feedback loops. |
| Topic 4 | <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. |
| Topic 5 | <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. |
| Topic 6 | <ul style="list-style-type: none"> Matching AI with Business Needs (Phase I): This section of the exam measures the skills of a Business Analyst and covers how to evaluate whether AI is the right fit for a specific organizational problem. It focuses on identifying real business needs, checking feasibility, estimating return on investment, and defining a scope that avoids unrealistic expectations. The section ensures that learners can translate business objectives into AI project goals that are clear, achievable, and supported by measurable outcomes. |

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PMI Certified Professional in Managing AI Sample Questions (Q65-Q70):

NEW QUESTION # 65

A healthcare provider had physicians review a potential diagnostic AI application. During their final review, the project team, along with the physicians, discovered that the AI model exhibits a higher than acceptable false-positive rate.

Before making the go/no-go AI decision, which next step should be performed by the team?

- A. Increase the training data volume
- B. Adjust the hyperparameters for better generalization
- C. Focus on the model's ethical implications
- D. **Reevaluate the business objectives and outcomes**

Answer: D

Explanation:

In PMI's AI project management view, model evaluation must always be tied back to business and domain objectives, especially in high-risk domains like healthcare. A high false-positive rate in a diagnostic system directly affects clinical workflow, patient anxiety, and cost. Before deciding to proceed or invest in further model tuning, PMI recommends confirming whether the observed performance actually meets or fails the agreed success criteria and risk thresholds.

The PMI-CPMAI approach to AI risk and value alignment stresses that teams should "evaluate model performance in the context of stakeholder needs, risk tolerance, and expected outcomes, revisiting objectives and requirements when discrepancies emerge" (paraphrased from PMI AI risk and value guidance). In this scenario, the team and physicians have identified that the false-positive rate is higher than acceptable. The next step, before a go/no-go decision, is to reassess the business and clinical objectives, trade-

offs, and acceptable error rates: e.g., whether increased sensitivity justifies more false positives, or whether the system must be redesigned or repositioned (decision support vs. primary screener).

Technical options like hyperparameter tuning or more data may eventually be used, but they come after confirming what level of performance and error trade-off is required. Therefore, the appropriate next step is to reevaluate the business objectives and outcomes.

NEW QUESTION # 66

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

Answer: A

NEW QUESTION # 67

A telecommunications company is considering an AI solution to improve customer service through automated chatbots. The project team is assessing the feasibility of the AI solution by examining its potential scalability and effectiveness. What will present the highest risk to the company?

- A. The chatbot may not integrate well with existing customer service platforms.
- B. The team may lack experience implementing AI-based customer service solutions.
- C. The solution may not handle the volume of customer queries effectively.
- D. The solution might breach customer data privacy regulations, leading to legal consequences.

Answer: D

Explanation:

PMI's responsible AI emphasis treats privacy, security, and compliance as top-tier risks because failures can lead to immediate harm, legal penalties, loss of trust, and forced shutdown of the system—often outweighing technical or delivery risks. PMI notes that strong data governance creates a structured, secure environment that minimizes the risk of data security breaches and addresses compliance gaps as AI capabilities evolve faster than regulation. In a customer-service chatbot, sensitive data (account details, identifiers, interaction logs) is frequently processed and stored; a privacy breach can trigger regulatory action and reputational damage at a scale that eclipses integration delays (A), performance/scalability issues (C), or team capability gaps (D). PMI also frames trustworthy AI around governance and accountability practices that reduce fear and build trust—privacy compliance is foundational to that trust. While scalability is important for feasibility, it is generally a solvable engineering and capacity-planning challenge; by contrast, privacy noncompliance can be existential for the initiative. Therefore, the highest-risk option is breaching customer data privacy regulations with legal consequences.

NEW QUESTION # 68

A government agency plans to implement a new AI-driven solution for automating risk analysis. The project team needs to ensure that all stakeholders accept the solution and the project scope is well-defined. They must identify whether the AI approach is the best solution compared to traditional methods.

Which method meets this objective?

- A. Performing a comprehensive AI go/no-go assessment focusing on technology and data factors
- B. Developing a prototype using generative adversarial networks (GANs)
- C. Utilizing a hybrid approach combining cognitive and noncognitive parts to satisfy all parties
- D. Conducting a detailed analysis to evaluate other potential AI solutions

Answer: A

Explanation:

In the CPMAI-aligned approach, before committing to an AI solution, teams perform a structured AI go/no-go assessment to

determine whether AI is actually the right tool compared with traditional analytical or rules-based methods. This assessment looks at data readiness, technical feasibility, business value, risk, and alignment with stakeholder expectations. It is also where the project scope is clarified and boundaries are set: what problems AI will address, what remains non-AI, and what success looks like in measurable terms.

CPMAI and PMI-style AI guidance emphasize that you should not jump directly into model building or specific architectures before you have answered the fundamental question: "Is AI the appropriate approach here, given our data and constraints?" The go/no-go assessment explicitly compares AI options with conventional solutions, evaluates whether available data is sufficient and usable, and highlights ethical, regulatory, and operational risks. This process provides a transparent, evidence-based decision that helps gain acceptance from stakeholders because they see that AI was chosen (or rejected) after a systematic evaluation. Therefore, performing a comprehensive AI go/no-go assessment focusing on technology and data factors is the method that best meets the objective.

NEW QUESTION # 69

A project manager is preparing for an AI model evaluation. The model has shown an overall 70% accuracy rate, but the project key performance indicators (KPIs) require at least 89% accuracy.

Which issue related to accuracy reduction should the project manager investigate first?

- A. Inadequate computational power being used
- B. Incorrect selection of model algorithms
- C. Training data is not representative of real-world data
- D. Failure to split training, testing, and validation datasets

Answer: C

Explanation:

When an AI model underperforms against defined KPIs (70% accuracy vs required 89%), PMI-style AI evaluation guidance directs project managers to first investigate data-related issues, especially representativeness and quality of the training data, before focusing on algorithms or infrastructure. If the training data is not representative of real-world data (option A), the model may learn patterns that do not generalize to production conditions. For example, it might be overexposed to common, simple cases and underexposed to rare but critical scenarios, specific customer segments, geographies, or newer product types.

This mismatch is one of the most common causes of accuracy degradation between expected and actual performance. Ensuring representativeness involves checking that the data covers the full spectrum of operational scenarios, class distributions, time periods, and user demographics relevant to the use case.

Inadequate compute (option B) more often affects training time than final accuracy, assuming the model trains to convergence.

Failure to split datasets correctly (option C) leads to unreliable evaluation metrics, but the question already states an accuracy result and a KPI gap, pointing to performance, not just measurement.

Algorithm selection (option D) is important but typically evaluated after confirming that the data foundation is sound. Thus, the first issue to investigate is whether training data is representative of real-world data.

NEW QUESTION # 70

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