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## PMI Certified Professional in Managing AI Sample Questions (Q49-Q54):

### NEW QUESTION # 49

A company plans to operationalize an AI solution. The project manager needs to ensure model performance is meeting selected thresholds before release.

What is an effective way to confirm these thresholds before this release?

- A. Conducting a series of penetration tests
- **B. Testing against validation datasets**
- C. Implementing an impact evaluation
- D. Running multiple end-user acceptance tests

**Answer: B**

Explanation:

Before operationalizing an AI model, PMI-CPMAI emphasizes confirming whether the model meets predefined performance thresholds using well-governed evaluation datasets. This is done by testing against validation (and/or test) datasets that are distinct from the training data and representative of real-world conditions. These datasets allow the team to compute agreed metrics—such as accuracy, precision, recall, F1, AUC, or domain-specific KPIs—and compare them directly against acceptance criteria defined earlier with stakeholders.

The PMI framework stresses traceability from business objectives → requirements → metrics → thresholds → evaluation results. Validation testing is where this chain is concretely confirmed: if the model consistently meets or exceeds thresholds on held-out data, it is a strong indicator that it is ready for controlled release. Impact evaluation (option B) is more appropriate once the model is in pilot or production, focusing on business outcomes. End-user acceptance tests (option C) mainly address usability and workflow fit, not detailed model performance. Penetration tests (option D) address security rather than predictive quality.

Thus, to confirm that model performance meets selected thresholds before release, the most effective method is testing against validation datasets (option A).

#### NEW QUESTION # 50

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

**Answer: C**

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 # 51

A logistics company is operationalizing an AI system to improve delivery times. The project team needs to identify performance constraints that may impact the AI solution.

Which method should the project manager use to meet the team's objective?

- **A. Conducting a preliminary feasibility study**
- B. Benchmarking against competitors
- C. Training employees on AI ethics
- D. Implementing advanced data visualization tools

**Answer: A**

Explanation:

When operationalizing an AI system to improve delivery times, PMI-style AI project guidance stresses the importance of identifying constraints and assumptions early, before heavy investment in build-out. A preliminary feasibility study is the standard method to surface key performance constraints that might impact the AI solution. This includes analyzing current logistics processes, data availability and latency, network conditions, service-level expectations (e.g., maximum response times for route optimization), infrastructure capacity, and integration limits with existing systems.

A feasibility study helps the team clarify: what throughput is required, how frequently predictions must be updated, what real-time vs. batch constraints exist, and whether current hardware, APIs, and data pipelines can support those requirements. This aligns with PMI-CPMAI's emphasis on evaluating technical, data, and organizational readiness before committing to full-scale deployment. Benchmarking competitors (option A) may highlight external performance targets but does not systematically uncover the internal constraints. Implementing advanced visualization tools (option B) can help later with monitoring and communication but does not, by itself, identify constraints. Training employees on AI ethics (option D) is valuable from a governance standpoint, yet it does not address performance limitations. Thus, the method that directly meets the objective of identifying performance constraints is to conduct a preliminary feasibility study.

### NEW QUESTION # 52

An IT services company is verifying data quality for an AI project aimed at predicting server downtimes. The project manager needs to decide whether to proceed with data preparation.

Which technique should the project manager use?

- A. Data augmentation strategies
- **B. Exploratory data analysis (EDA)**
- C. Advanced data labeling methods
- D. Detailed cost-benefit analysis

**Answer: B**

Explanation:

PMI-CPMAI emphasizes that data quality assessment must precede data preparation and modeling. The recommended technique at this stage is exploratory data analysis (EDA) to understand whether the data is fit for the AI use case. EDA allows the project team to examine distributions, detect missing values, outliers, noise, inconsistencies, data drift, and potential bias.

In the AI lifecycle view adopted by PMI, the data assessment step focuses on profiling data before investing effort in cleaning, transformation, or feature engineering. EDA gives insight into whether the available logs and telemetry (such as server performance metrics for downtime prediction) contain sufficient signal, appropriate time coverage, and consistent labeling to support reliable modeling. This aligns with PMI's guidance that project managers should "confirm that the dataset is adequate in completeness, accuracy, and relevance to the business objective before proceeding with preparation and modeling" (paraphrased from PMI AI data practices guidance).

Other options like data augmentation or advanced labeling are downstream enhancement techniques, and cost-benefit analysis is a management tool, not a data quality method. To decide whether to proceed with data preparation, the most suitable technique is exploratory data analysis (EDA).

### NEW QUESTION # 53

A healthcare project manager is evaluating whether to implement an AI-powered diagnostic tool. The initial cost is US\$500,000 with an expected return on investment (ROI) of 15% within the first year. The project needs to satisfy multiple stakeholders including hospital administrators and medical staff.

Which method will maximize a positive ROI for the AI implementation?

- A. Seeking verbal commitments from interested parties at each project phase
- B. Ensuring all AI and non-AI components are integrated seamlessly
- **C. Monitoring AI model performance against key performance indicators**
- D. Acquiring alternatives to the AI solution as a contingency plan

**Answer: C**

Explanation:

In PMI-CPMAI, realizing a positive ROI from AI is not just about an attractive business case at the start; it depends on continuous monitoring of value delivery against clearly defined performance and outcome metrics. For a healthcare AI diagnostic tool with a specified ROI target (15% in the first year) and multiple stakeholders (administrators and clinicians), the project manager must ensure the tool is actually achieving the predicted improvements in practice.

The framework recommends defining key performance indicators (KPIs) aligned to the value proposition-such as diagnostic accuracy for specific conditions, time-to-diagnosis, reduction in unnecessary tests, throughput, and impact on patient outcomes-and then monitoring the AI model's performance against those KPIs over time. By tracking these metrics, the team can identify drifts, bottlenecks, or workflow issues and take corrective action (retraining, process changes, configuration updates) to protect and maximize ROI.

Seamless integration (option A) is important but is a means, not the main mechanism to ensure ROI is realized. Contingency solutions and verbal commitments do not directly drive financial outcomes. PMI-CPMAI's value-focus makes ongoing performance monitoring against KPIs the most effective method to maximize and protect the expected ROI.

## NEW QUESTION # 54

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