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PMI Certified Professional in Managing AI Sample Questions (Q105-Q110):

NEW QUESTION # 105

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

Answer: C

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 # 106

A manufacturing company is implementing an AI system to optimize production schedules. The project manager needs to gather the required data from machine sensors, production logs, and supply chain databases.

During data collection, they notice discrepancies in machine sensor data.

What should the project manager do first?

- A. Implement a robust data validation and correction process.
- B. Outsource data preprocessing to an external vendor.
- C. Develop a data integration framework to harmonize formats.
- D. Replace machine sensors for real-time data accuracy.

Answer: A

Explanation:

The best answer is D. Implement a robust data validation and correction process. In PMI-CPMAI, data understanding and data preparation require the team to evaluate training data requirements, validate data quality, perform data cleansing and enhancement, and make go/no-go decisions based on whether the data is fit for model development. When discrepancies are detected during collection, the first priority is to validate the data, identify the source of the inconsistency, and correct or isolate bad records before moving further into integration or modeling.

Option A may eventually be necessary, especially when combining sensor, log, and database sources, but harmonizing formats should not come before confirming whether the sensor data is accurate and reliable.

Option B is not a first-step governance response and does not directly address the quality issue. Option C could be appropriate only if the validation process shows that the sensors themselves are faulty; replacing hardware before confirming the root cause would be premature. PMI's methodology consistently stresses data quality validation and cleansing as foundational activities in AI projects. Since the scenario explicitly mentions discrepancies, the most appropriate first action is to validate and correct the data so later integration and model-building decisions are based on trustworthy inputs.

NEW QUESTION # 107

A project manager is considering different project management approaches for an AI solution deployment.

They need to ensure the approach allows for iterative improvements and accommodates changing requirements.

Which approach is effective in this situation?

- A. Adaptive/agile
- B. Incremental

- C. Hybrid
- D. Predictive

Answer: A

Explanation:

PMI-CPMAI emphasizes that AI projects typically involve uncertainty, experimentation, and evolving requirements. Data can change, model behavior must be tuned, and stakeholders may refine success criteria as they see early results. Because of this, PMI frames AI work as well-suited to adaptive/agile approaches that support short iterations, continuous learning, and rapid feedback loops.

In an adaptive/agile approach, the team plans in smaller increments, regularly reprioritizes the backlog, and refines scope based on empirical evidence from model experiments and pilots. This allows them to update features, retrain models, and adjust data or architecture as new insights are gained. PMI-CPMAI links this directly to AI lifecycles, where experimentation, evaluation, and deployment are repeated cycles rather than one-off phases.

Predictive approaches are more rigid and assume stable, knowable requirements upfront, which is rarely realistic for AI behavior and data-driven insights. Incremental and hybrid can add some flexibility, but adaptive/agile is the explicit choice in PMI's guidance when iterative improvement and changing requirements are primary concerns. Therefore, the most effective approach for an AI solution deployment in this context is adaptive/agile.

NEW QUESTION # 108

In the early stages of an AI project, the team needs to determine the types of environments and devices where the AI solution will be used. This information is crucial to ensure a successful implementation.

Which action should the project manager implement first?

- A. Conduct comprehensive user experience research.
- B. Perform a technical requirements audit.
- C. Draft a detailed usage scenario analysis.
- **D. Hold workshops with end users to gather feedback.**

Answer: D

Explanation:

The best answer is B. Hold workshops with end users to gather feedback . In PMI-CPMAI, the early phases focus on aligning the AI solution with real business needs, anticipated adoption realities, and actual operating context before locking in technical decisions. PMI's official outline emphasizes reviewing organizational readiness, planning integration with existing systems and workflows, identifying user resistance and adoption barriers, and developing user satisfaction and adoption criteria. It also stresses defining project scope, assumptions, constraints, deployment considerations, and success criteria that align with organizational objectives. Because the question asks what should be done first , the project manager should begin by engaging the people who will actually use or be affected by the system. Workshops with end users are the most direct way to learn where the solution will be used, what devices matter, what operational constraints exist, and what conditions may affect implementation success. A technical requirements audit comes later, once usage realities are understood. A detailed usage scenario analysis is valuable, but it should be built from user input rather than assumed in advance. Comprehensive UX research can also help, but the PMI-aligned first move in a project context is stakeholder engagement that grounds later analysis in real user needs and operating conditions.

NEW QUESTION # 109

An AI project team is assessing the scalability of a healthcare solution. Which factor should the project manager consider to help ensure the solution is scalable?

- A. Human oversight requirements
- **B. Ability to handle increased loads**
- C. Integration with the existing infrastructure
- D. Compliance with data regulations

Answer: B

Explanation:

Scalability in AI initiatives is defined within PMI-CPMAI as the solution's ability to maintain performance, reliability, and accuracy when subjected to increased data volume, user demand, or computational workload. The PMI AI Management Framework emphasizes that an AI system must be architected to "expand capacity, data throughput, and model processing without degradation

of service quality" (PMI-CPMAI Learning Path: AI Solution Design and Implementation).

PMI further states that when assessing scalability, project managers must evaluate whether the AI system can "adapt to higher-than-forecast usage levels, larger datasets, and future feature growth using modular and distributed architectures." The official guidance notes that scalable AI solutions often rely on elastic cloud environments, containerized deployments, and horizontally scalable compute layers. This is captured in PMI's explanation that "AI performance must remain stable as demand increases, requiring testing against progressively higher loads to validate computational capacity, latency thresholds, and throughput expectations" (PMI-CPMAI: AI Technical Foundations).

The project manager's responsibility includes verifying that the model pipelines, data ingestion systems, and inferencing services continue to operate effectively under expanded operational demand. PMI stresses that this factor-ability to handle increased loads-is the cornerstone of scalability evaluation, whereas regulatory compliance, human oversight, and integration concerns, while important, relate to governance, ethics, and interoperability rather than scalability.

Therefore, the correct factor that ensures AI scalability is the solution's ability to handle increased loads.

NEW QUESTION # 110

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