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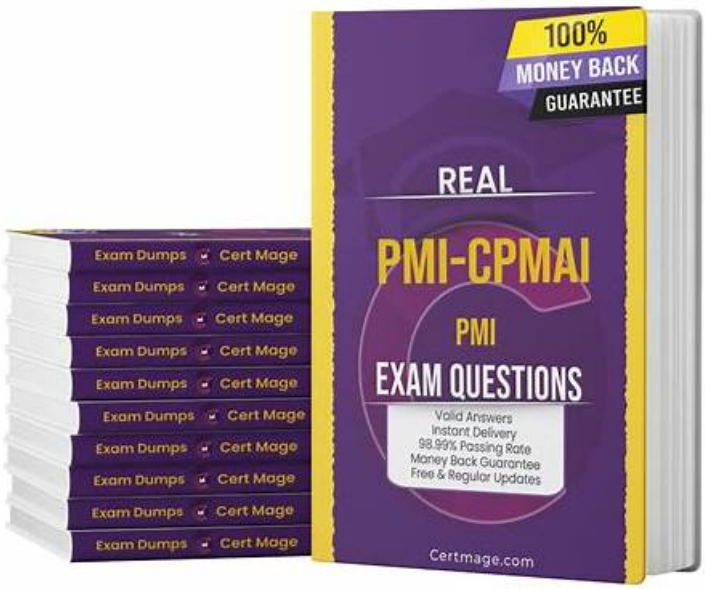

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PMI PMI-CPMAI Exam Syllabus Topics:

Topic	Details

Topic 1	• 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 2	• Identifying Data Needs for AI Projects (Phase II): This section of the exam measures the skills of a Data Analyst and covers how to determine what data an AI project requires before development begins. It explains the importance of selecting suitable data sources, ensuring compliance with policy requirements, and building the technical foundations needed to store and manage data responsibly. The section prepares candidates to support early data planning so that later AI development is consistent and reliable.
Topic 3	• 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.
Topic 4	• 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 5	• 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.

PMI Certified Professional in Managing AI Sample Questions (Q87-Q92):

NEW QUESTION # 87
A project team at an IT services company is developing an AI solution to enhance network security. They need to define the success criteria to help ensure the project achieves its desired outcomes.
What should the project manager do to define the relevant success criteria?

- A. Implement machine learning (ML) algorithms for threat prediction
- B. Conduct a SWOT (strengths, weaknesses, opportunities, threats) analysis of the network infrastructure
- C. Perform a detailed cost-benefit analysis of security investments
- D. Use key performance indicators (KPIs) for incident response times and threat detection rates

Answer: D

Explanation:
PMI-CPMAI stresses that AI projects must define clear, measurable success criteria that are directly aligned with the problem the AI is intended to solve. In a network security context, the AI solution is being developed to "enhance network security," which, in operational terms, translates to outcomes like faster incident response and better detection of threats and anomalies.
PMI's guidance on benefits realization and performance management recommends using key performance indicators (KPIs) that are specific, measurable, and time-bound. For security, relevant KPIs typically include metrics such as mean time to detect (MTTD), mean time to respond (MTTR), detection rates, false positive/false negative rates, number of incidents contained, and reduction in successful breaches. By defining success criteria in terms of incident response times and threat detection rates, the project manager ties the AI system's performance directly to business and operational outcomes, making it easier to monitor effectiveness and justify investment.
Implementing ML algorithms (option A) is a technical activity, not a definition of success. SWOT analysis and cost-benefit analysis (options C and D) can inform strategy and justification, but they do not, by themselves, define how success will be measured in day-to-day operations. PMI-CPMAI emphasizes metrics-driven evaluation, so using KPIs for incident response times and threat detection rates (option B) is the correct approach.

NEW QUESTION # 88
A healthcare organization plans to develop an AI-driven diagnostic tool. To define the required data, the project manager needs to ensure data consistency and accessibility.
Which method should the project manager use?

- A. Performing a data quality assessment with extraction, transformation, and loading (ETL) processes
- B. Employing a hybrid cloud strategy for scalable data storage
- C. Leveraging natural language processing (NLP) to standardize patient records
- D. Integrating electronic health records (EHR) with AI through machine learning (ML) algorithms

Answer: A,C

Explanation:
CPMAI's Data Understanding and Data Preparation phases stress that AI success in domains like healthcare depends on robust data pipelines that ensure consistency, quality, and accessibility before modeling begins. Guidance describes these phases as profiling and assessing data, then performing cleaning, transformation, and structuring so that data are reliable and usable by downstream models.
A data quality assessment combined with ETL (extraction, transformation, loading) processes directly supports these objectives. ETL pipelines standardize formats across disparate systems, enforce validation rules, manage missing values, harmonize coding schemes (for example, diagnosis codes), and centralize data into accessible stores. This is exactly the kind of foundational work CPMAI describes as a prerequisite to effective model development, particularly in regulated sectors such as healthcare where inconsistent or inaccessible data can have clinical and regulatory consequences.
By contrast, using NLP to standardize records (B) is a specialized technique that may help later but does not replace a systematic quality and ETL process. Integrating EHR with ML algorithms (C) and designing hybrid cloud storage (D) are more about later technical integration and infrastructure than about defining and ensuring initial data consistency and accessibility. Thus, in line with CPMAI's data-centric guidance, performing a data quality assessment with ETL processes is the correct method, making option A the best answer.

NEW QUESTION # 89
An aerospace company is in the data preparation phase of an AI project. The project team must verify data quality to make a go/no-go decision for model development. They need to integrate data from several sensors with different sampling rates.
What is an effective method that helps to ensure data consistency?

- A. Applying a real-time data synchronization protocol
- B. Developing a custom data integration framework
- C. Aggregating sensor data
- D. Utilizing data interpolation methods

Answer: D

Explanation:
The best answer is B. Utilizing data interpolation methods . In PMI-CPMAI, data readiness depends on whether the data is suitable for the intended AI use case, including whether it meets requirements for sampling strategy, temporal alignment, granularity, and consistency . PMI's exam outline specifically highlights determining sampling strategies and temporal requirements, assessing data quality dimensions such as accuracy, completeness, and consistency , and validating preprocessing and transformation results before making a go/no-go decision for model development.
When multiple sensors produce data at different sampling rates, interpolation is a common and effective way to align measurements onto a consistent timeline so that downstream models can learn from synchronized inputs. This is the strongest choice because it directly addresses the inconsistency created by mismatched sensor frequencies. A custom integration framework may be useful technically, but it does not by itself solve the consistency problem. Real-time synchronization protocols are more relevant to live acquisition architecture and may not be feasible or necessary during data preparation. Simple aggregation may reduce detail and distort patterns that are important for model training. Under PMI-CPMAI logic, the most appropriate action is the one that best preserves usable, comparable data while supporting a rigorous data- quality decision.

NEW QUESTION # 90
A development team is tasked with creating an AI system to assist physicians with diagnosing medical conditions. They encountered cases where symptoms do not always lead to well-defined diagnoses.

Which approach should the project manager integrate to handle the inherent uncertainty?

- A. Increase the number of input variables
- B. Keep a human in the loop with all decision-making
- C. Implement a more complex retrained model
- D. Enhance the knowledge base with more detailed rules

Answer: B

Explanation:
For AI systems supporting high-stakes medical decisions, PMI-CP/CPMAI and responsible AI guidance emphasize human-in-the-loop oversight as the primary way to manage inherent uncertainty and risk. In clinical diagnosis, symptoms are often ambiguous, overlapping across multiple conditions, and influenced by patient history and context. No matter how advanced the model, there will be edge cases, rare diseases, and conflicting signals.
Rather than attempting to eliminate uncertainty purely through more complex models, more input variables, or ever-growing rule sets, best practice is to design the AI as a decision-support tool, not an autonomous decision-maker. That means physicians retain ultimate responsibility, reviewing AI suggestions, over-riding them when clinically necessary, and using their expertise to weigh patient-specific factors the model may not capture.
Human-in-the-loop design also supports explainability and trust: clinicians can question outputs, cross-check with other evidence, and provide feedback that can be used later for model improvement. CPMAI's lifecycle framing for regulated and safety-critical domains is clear: when outcomes materially affect health or life, the appropriate way to handle uncertainty is to keep a human in the loop for all decision-making, which aligns directly with option A.

NEW QUESTION # 91
In a government healthcare AI project, the objective is to reduce patient wait times by optimizing staff schedules. After 6 months, the cost is US$500,000 with a completion rate of 60%. The project manager needs to determine the return on investment (ROI) to justify the current expenditure. What is an effective method to achieve this objective?

- A. Apply a cost-consequence analysis to measure project efficiency.
- B. Calculate the total savings in patient wait times and compare them to the initial cost.
- C. Evaluate the incremental cost-benefit analysis using the cost-performance baseline.
- D. Utilize a net present value model to project future benefits.

Answer: D

Explanation:
PMI-CPMAI expects the project manager to determine ROI by calculating expected benefits, estimating total cost of ownership, developing a financially justified business case, and creating cost-benefit analysis to support stakeholder decisions. In this scenario, the project is only 60% complete, so the full benefits (reduced wait times, throughput gains, staffing efficiency) may not yet be fully realized or measurable. Under PMI's ROI determination intent-supporting business case justification while outcomes are still unfolding-an effective method is to project future benefits and compare them to investment, which is what an NPV model enables.
NPV is useful when benefits accrue over time and when decision makers need a defensible view of value before full delivery, because it discounts future benefits and costs into today's terms for comparison.
Option B is attractive but assumes benefits are already fully observable and monetized; in many public-sector healthcare settings, translating wait-time reductions into verified cash savings can be nontrivial midstream.
Options C and D are not explicitly called out in PMI-CPMAI's ROI determination tasks, while the outline explicitly emphasizes financial justification and cost-benefit framing-well supported by NPV.

NEW QUESTION # 92
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