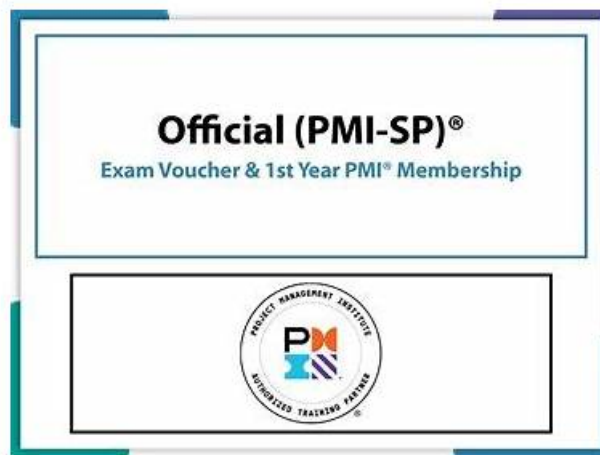


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PMI PMI-CPMAI Exam Syllabus Topics:

Topic	Details
Topic 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.

Topic 2	<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 3	<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.
Topic 4	<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 5	<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.

PMI Certified Professional in Managing AI Sample Questions (Q57-Q62):

NEW QUESTION # 57

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

Answer: A

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 # 58

An AI project team has identified a gap in their data knowledge and experience. They need to address this issue in order to proceed with their AI implementation.

What is the effective solution?

- A. Utilize an AI-specific data enhancement protocol to improve data quality
- B. Deploy an adaptive data knowledge framework (ADKF) to bridge the expertise gap
- C. Engage in a comprehensive data immersion program to build internal capabilities
- **D. Hire an external data consultant to provide targeted guidance and training**

Answer: D

Explanation:

Within PMI-CPMAI guidance on AI readiness and capability enablement, a clearly identified gap in data knowledge and experience is treated as a critical skills and competency risk. The framework emphasizes that AI projects are highly dependent on data literacy, understanding of data sources, structure, quality, and regulatory constraints. When such gaps exist, PMI-consistent practice is to bring in specialized expertise to both support the current initiative and uplift the organization's internal capabilities.

Hiring an external data consultant provides immediate access to deep data expertise, including data modeling, governance, privacy, and AI-specific data requirements. This expert can perform targeted assessments, help define data strategies, guide data preparation, and deliver focused training or coaching to the project team. PMI-CPMAI stresses that leveraging external SMEs is often the most effective way to de-risk complex AI implementations when internal skills are insufficient, especially in early stages or high-stakes domains.

Options such as deploying abstract "frameworks" or "protocols" do not, by themselves, close a human expertise gap. A comprehensive internal data immersion program may be useful long-term, but it first requires guidance on what to learn and how to structure that learning. Therefore, the most effective and actionable solution to proceed with implementation is hiring an external data consultant to provide targeted guidance and training.

NEW QUESTION # 59

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. Advanced data labeling methods
- **C. Exploratory data analysis (EDA)**
- D. Detailed cost-benefit analysis

Answer: C

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 # 60

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

Answer: C,D

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 # 61

The project team at an IT services company is working on an AI-based customer support chatbot. To help ensure the chatbot functions effectively, they need to define the required data.

Which method meets the project requirements?

- A. Developing a new script based on anticipated customer queries
- **B. Gathering historical customer interaction logs for training data**
- C. Integrating feedback from beta customers to refine the model
- D. Using synthetic data generated from sample customer conversations

Answer: B

Explanation:

For an AI-based customer support chatbot, PMI-CPMAI-aligned lifecycle guidance stresses that defining required data starts from real, historical interactions that reflect actual customer needs and behaviors. Gathering historical customer interaction logs for training data (option B) is the method that best meets this requirement. These logs typically include customer questions, intents, issues, resolutions, and escalation paths, providing a rich, labeled or label-ready corpus that is highly representative of real-world use.

By analyzing these logs, the team can identify the most frequent intents, common phrasing, edge cases, and areas where customers are confused or dissatisfied. This directly informs data schema design, labeling strategies, and coverage requirements for the chatbot. It also helps define performance metrics (such as resolution rate for top intents) and guardrails. Synthetic data (option A) may supplement coverage but should not be the primary basis for defining required data, as it risks encoding designer assumptions instead of reality. Feedback from beta customers (option C) is valuable later in the evaluation and improvement phases. Developing scripts based on anticipated queries (option D) aids dialogue design but does not truly define the underlying data required for robust training. Therefore, gathering and leveraging historical customer interaction logs is the most appropriate method to define required data for an effective support chatbot.

NEW QUESTION # 62

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