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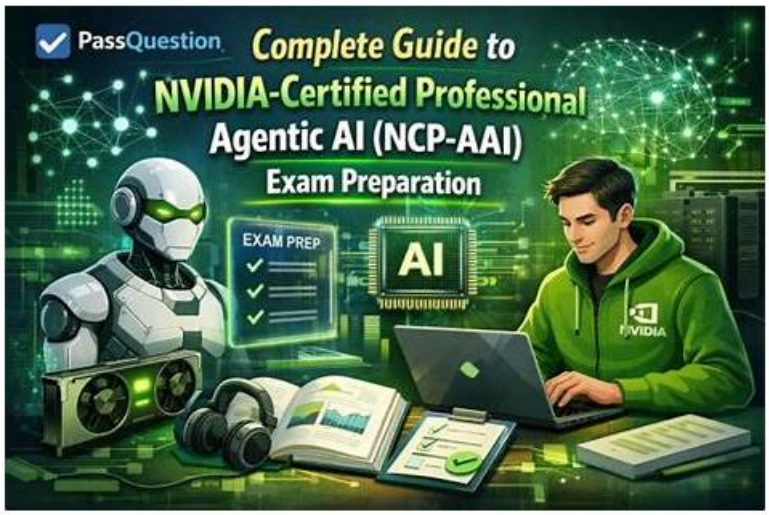

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NVIDIA NCP-AAI Exam Overview:

Certification Vendor:	NVIDIA
Exam Name:	NVIDIA-Certified Professional: Agentic AI
Exam Number:	NCP-AAI
Exam Duration:	120 minutes
Certificate Validity Period:	2 years
Exam Format:	Multiple Response, Scenario-Based, Multiple Choice
Passing Score:	Not publicly disclosed
Available Languages:	English
Real Exam Qty:	60-70
Related Certifications:	NVIDIA Generative AI LLM Associate NVIDIA AI Infrastructure Professional NVIDIA AI Networking Professional
Exam Price:	$200 USD
Sample Questions:	NVIDIA NCP-AAI Sample Questions
Exam Way:	Online remotely proctored exam
Pre Condition:	Recommended 1-2 years of experience in AI/ML roles with hands-on experience in production-level agentic AI projects, multi-agent systems, orchestration, deployment, and evaluation.
Official Syllabus URL:	https://www.nvidia.com/en-us/learn/certification/agentic-ai-professional/

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NVIDIA NCP-AAI Exam Syllabus Topics:

Topic	Details
Topic 1	• Agent Development: Focuses on the practical building, integration, and enhancement of agents using tools, frameworks, and APIs.
Topic 2	• Human-AI Interaction and Oversight: Focuses on designing systems that enable effective human supervision, control, and collaboration with AI agents.
Topic 3	• Deployment and Scaling: Covers operationalizing agentic systems for production use, including containerization, orchestration, and scaling strategies.
Topic 4	• Run, Monitor, and Maintain: Addresses the ongoing operation, health monitoring, and routine maintenance of agentic systems after deployment.
Topic 5	• Cognition, Planning, and Memory: Explores the reasoning strategies, decision-making processes, and memory management techniques that drive intelligent agent behavior.
Topic 6	• NVIDIA Platform Implementation: Focuses on leveraging NVIDIA's AI hardware and software stack to build and optimize agentic AI systems.
Topic 7	• Safety, Ethics, and Compliance: Covers the principles and practices needed to ensure agents operate responsibly, ethically, and within legal and regulatory requirements.
Topic 8	• Knowledge Integration and Data Handling: Covers how agents integrate external knowledge sources and manage diverse data types to support informed decision-making.

NVIDIA Agentic AI Sample Questions (Q27-Q32):

NEW QUESTION # 27
Your team has built an agent using LangChain and needs to implement guardrails for deployment in a production environment. Which approach represents the MOST effective integration of NVIDIA NeMo Guardrails?

- A. Rebuild the agent using only NeMo Guardrails, thereby reconstructing the LangChain implementation with enhanced safety controls and production-ready guardrail integration.
- B. Configure input filtering to address safety requirements, integrating guardrail mechanisms focused on data validation and moderation within the current framework.
- C. Run the LangChain agent in parallel with NeMo Guardrails, allowing comparison of outputs between systems for comprehensive safety validation and performance optimization.
- D. Wrap the LangChain agent with NeMo Guardrails configuration while maintaining the existing workflow architecture and preserving current development investments.

Answer: D

Explanation:
Option B is the right call because it gives the platform team levers to tune behavior without rewriting the entire agent loop. The selected option specifically B states "Wrap the LangChain agent with NeMo Guardrails configuration while maintaining the existing workflow architecture and preserving current development investments.", which matches the operational requirement rather than a superficial wording match. Wrapping LangChain with NeMo Guardrails preserves the existing agent while adding policy enforcement. Rebuilding the workflow is unnecessary risk. The implementation detail that matters is multi-layer controls that combine semantic checks, topic control, content safety, jailbreak detection, and logged decisions. Within the NVIDIA stack, the guardrail layer should emit enough telemetry to show which policy triggered, which content was blocked or modified, and where the decision occurred. The losing choices mostly optimize for short-term convenience; unlogged guardrail decisions leave compliance teams

unable to reconstruct what happened during an incident. That is the difference between an agent that works in a notebook and an agent that remains reliable in production.

NEW QUESTION # 28
A team is designing an AI assistant that helps users with travel planning. The assistant should remember user preferences, build personalized itineraries, and update plans when users provide new requirements.
Which approach best equips the AI assistant to provide personalized and adaptive travel recommendations?

- A. Using a single-step question-answering system enhanced with session-level keyword tracking to improve relevance during ongoing interactions.
- B. Providing the same set of travel options to every user but sorting them based on recent popular destinations.
- C. Engineering multi-step reasoning frameworks with persistent memory systems to store and utilize user preferences.
- D. Designing the assistant to handle each user request independently, while using implicit signals within each session to suggest relevant options.

Answer: C

Explanation:
The NVIDIA implementation angle is not cosmetic here: long-running agents should retrieve compact relevant context instead of replaying the entire conversation history into every call. Travel personalization depends on persistent preferences and multi-step plan updates. A single-turn answerer cannot adapt itineraries as constraints change. From an NVIDIA systems-engineering lens, Option C aligns with the way agentic services should be decomposed and measured. The selected option specifically C states "Engineering multi- step reasoning frameworks with persistent memory systems to store and utilize user preferences.", which matches the operational requirement rather than a superficial wording match. The correct implementation surface is checkpointed state keyed by session or user, with schemas that preserve only the fields the workflow needs later. The losing choices mostly optimize for short-term convenience; unbounded memory creates privacy, relevance, and performance problems unless persistence is deliberate. This choice gives engineering teams the knobs they need for continuous tuning after deployment. The memory policy should define what is persisted, what is summarized, and what is discarded to avoid both context loss and prompt bloat.

NEW QUESTION # 29
In designing an AI workflow which of the following best describes a comprehensive approach to improving the performance of AI agents?

- A. Monitoring agents' throughput and time-to-first-token from the scoring engine
- B. Implementing benchmarking pipelines, collecting user feedback, and tuning model parameters iteratively
- C. Implementing benchmarking pipelines, deploying physical agents and monitoring user engagement metrics
- D. Implementing benchmarking pipelines and incorporating a dynamic dataset for a real-time fall-back

Answer: B

Explanation:
Agent improvement is iterative: benchmark, collect feedback, tune, regress-test, repeat. Monitoring token speed alone misses reasoning quality and task completion. The architecture implied by Option B is the one that survives real workloads: separate responsibilities, explicit contracts, and measurable runtime behavior.
The selected option specifically B states "Implementing benchmarking pipelines, collecting user feedback, and tuning model parameters iteratively", which matches the operational requirement rather than a superficial wording match. The correct implementation surface is trajectory-level evaluation, distributed tracing, task- completion metrics, latency breakdowns, and regression gates. In NVIDIA terms, NeMo Evaluator and agentic metrics focus on trajectories and goal completion, not only the fluency of the last response. The distractors fail because manual spot checks are useful but cannot replace regression tests across query classes, temporal drift, and tool failure modes. This choice gives engineering teams the knobs they need for continuous tuning after deployment. A strong evaluation setup must preserve both the trajectory and the final outcome so optimization does not improve one metric while damaging another.

NEW QUESTION # 30
You are designing the architecture for a RAG (Retrieval-Augmented Generation) system, and you are concerned about ensuring data freshness and minimizing latency.
Which of the following is the most important consideration when designing the architecture?

- A. Implementing a single, centralized database for all data, updated with a synchronous polling mechanism for the LLM to retrieve the latest information.
- B. Using a synchronous, block-level approach, where the LLM continuously monitors the database for updates and retrieves the entire dataset with each prompt.
- C. Use a loosely coupled, event-driven micro-service architecture where separate services handle data indexing, retrieval, and LLM prompting.
- D. Employing a consolidated architecture with a large service handling all data retrieval and LLM interaction. This ensures consistent performance and simplifies debugging.

Answer: C

Explanation:
The rejected options are weaker because stuffing raw chunks into prompts or relying on model priors makes answers stale, irreproducible, and difficult to debug. Event-driven microservices separate ingestion, indexing, retrieval, and generation. That is the path to fresh data with low latency and maintainable updates. The architecture implied by Option D is the one that survives real workloads: separate responsibilities, explicit contracts, and measurable runtime behavior. The selected option specifically D states "Use a loosely coupled, event-driven micro-service architecture where separate services handle data indexing, retrieval, and LLM prompting.", which matches the operational requirement rather than a superficial wording match. In NVIDIA terms, RAG quality depends on data handling as much as generation; vector retrieval and reranking must be validated with their own metrics. The correct implementation surface is query transformation and fusion before generation so the model receives evidence-rich context rather than one brittle keyword match. This choice gives engineering teams the knobs they need for continuous tuning after deployment.

NEW QUESTION # 31
You're evaluating the performance of a tool-using agent (e.g., one that issues API calls or executes functions).
From the list below, what are two important features to evaluate? (Choose two.)

- A. Task completion rate
- B. Tool use rate
- C. Tokens per second
- D. Tool use accuracy

Answer: A,D

Explanation:
The runtime should therefore be built around wrappers that convert messy external services into stable functions with bounded latency and predictable failure semantics. the combination of Options A and D is the right call because it gives the platform team levers to tune behavior without rewriting the entire agent loop.
For tool agents, the two decisive signals are whether the correct tool was chosen and whether the task completed. Tokens per second is infrastructure performance, not agent competence. Within the NVIDIA stack, tool execution should sit behind adapters that can be profiled and regression-tested just like retrieval and inference services. Together, A states "Tool use accuracy"; D states "Task completion rate", so the answer covers both sides of the requirement instead of solving only the model or only the infrastructure layer.
The rejected options are weaker because hardcoded endpoints, loose parsers, or monolithic handlers turn every API change into an application release and hide failures from observability. The answer is therefore about engineered control planes, not simply model capability.

NEW QUESTION # 32
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