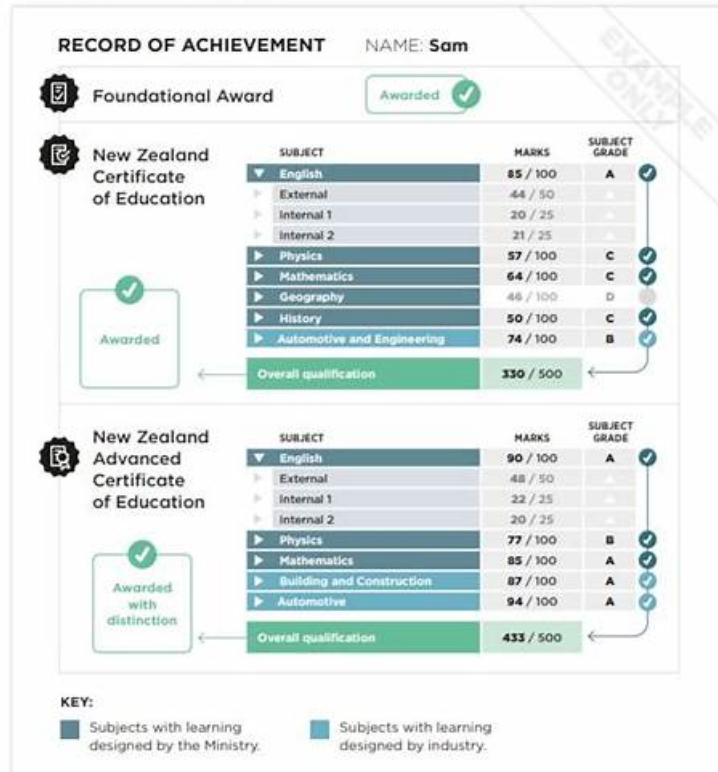


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Figure 2: Example of what a student's record of achievement could look like under the New Zealand Certificate of Education and New Zealand Advanced Certificate of Education. The make-up of English is expanded, demonstrating how it may be made up of 50 percent external assessments and 50 percent internal assessment.



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NVIDIA NCA-AIIO Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> AI Operations: This section of the exam measures the skills of data center operators and encompasses the management of AI environments. It requires describing essentials for AI data center management, monitoring, and cluster orchestration. Key topics include articulating measures for monitoring GPUs, understanding job scheduling, and identifying considerations for virtualizing accelerated infrastructure. The operational knowledge also covers tools for orchestration and the principles of MLOps.
Topic 2	<ul style="list-style-type: none"> AI Infrastructure: This section of the exam measures the skills of IT professionals and focuses on the physical and architectural components needed for AI. It involves understanding the process of extracting insights from large datasets through data mining and visualization. Candidates must be able to compare models using statistical metrics and identify data trends. The infrastructure knowledge extends to data center platforms, energy-efficient computing, networking for AI, and the role of technologies like NVIDIA DPUs in transforming data centers.
Topic 3	<ul style="list-style-type: none"> Essential AI knowledge: Exam Weight: This section of the exam measures the skills of IT professionals and covers foundational AI concepts. It includes understanding the NVIDIA software stack, differentiating between AI, machine learning, and deep learning, and comparing training versus inference. Key topics also involve explaining the factors behind AI's rapid adoption, identifying major AI use cases across industries, and describing the purpose of various NVIDIA solutions. The section requires knowledge of the software components in the AI development lifecycle and an ability to contrast GPU and CPU architectures.

NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q23-Q28):

NEW QUESTION # 23

When extracting insights from large datasets using data mining and data visualization techniques, which of the following practices is most critical to ensure accurate and actionable results?

- A. Visualizing all possible data points in a single chart.
- B. Ensuring the data is cleaned and pre-processed appropriately.
- C. Using complex algorithms with the highest computational cost.
- D. Maximizing the size of the dataset used for training models.

Answer: B

Explanation:

Accurate and actionable insights from data mining and visualization depend on high-quality data. Ensuring data is cleaned and pre-processed appropriately—removing noise, handling missing values, and normalizing features—prevents misleading results and ensures reliability. NVIDIA's RAPIDS library accelerates these steps on GPUs, enabling efficient preprocessing of large datasets for AI workflows, a critical practice in NVIDIA's data science ecosystem (e.g., DGX and NGC integrations).

Complex algorithms (Option A) may enhance analysis but are secondary to data quality; high cost doesn't guarantee accuracy.

Visualizing all data points (Option C) can overwhelm charts, obscuring insights, and is less critical than preprocessing. Maximizing dataset size (Option D) can improve models but risks introducing noise if not cleaned, reducing actionability. NVIDIA's focus on data preparation in AI pipelines underscores Option B's importance.

NEW QUESTION # 24

You are tasked with deploying an AI model across multiple cloud providers, each using NVIDIA GPUs.

During the deployment, you observe that the model's performance varies significantly between the providers, even though identical instance types and configurations are used. What is the most likely reason for this discrepancy?

- A. Differences in the GPU architecture between the cloud providers
- B. Different versions of the AI framework being used across providers
- C. Variations in cloud provider-specific optimizations and software stack
- D. Cloud providers using different cooling systems for their data centers

Answer: C

Explanation:

Performance variations across cloud providers with identical NVIDIA GPU instances likely stem from provider-specific optimizations and software stacks (e.g., CUDA versions, driver tuning), affecting how NVIDIA GPUs (e.g., A100) execute the model. NVIDIA's DGX Cloud integrates with providers, but each may tweak configurations differently. Framework versions (Option B) could contribute but are less likely if controlled. Cooling (Option C) impacts hardware longevity, not immediate performance. GPU architecture (Option D) is identical per instance type. NVIDIA acknowledges provider-specific stacks as a key factor.

NEW QUESTION # 25

You are assisting in a project that involves deploying a large-scale AI model on a multi-GPU server. The server is experiencing unexpected performance degradation during inference, and you have been asked to analyze the system under the supervision of a senior engineer. Which approach would be most effective in identifying the source of the performance degradation?

- A. Check the system's CPU utilization.
- B. Inspect the training data for inconsistencies.
- C. Analyze the GPU memory usage using nvidia-smi.
- D. Monitor the system's power supply levels.

Answer: C

Explanation:

Analyzing GPU memory usage with nvidia-smi is the most effective approach to identify performance degradation during inference on a multi-GPU server. NVIDIA's nvidia-smi tool provides real-time insights into GPU utilization, memory usage, and process activity, pinpointing issues like memory overflows, underutilization, or contention—common causes of inference slowdowns. Option A (power supply) is secondary, as power issues typically cause failures, not gradual degradation. Option B (CPU utilization) is relevant but less critical for GPU-bound inference tasks. Option D (training data) affects model quality, not runtime performance. NVIDIA's performance troubleshooting guides recommend nvidia-smi as a primary diagnostic tool for GPU-based workloads.

NEW QUESTION # 26

Which statement BEST characterizes Artificial General Intelligence (AGI)?

- A. Rule-based expert systems
- B. Human-level general reasoning across domains
- C. Statistical pattern recognition
- D. Task-specific automation

Answer: B

Explanation:

AGI refers to intelligence with flexible, human-level reasoning across multiple domains.

NEW QUESTION # 27

In a virtualized AI environment, you are responsible for managing GPU resources across several VMs running different AI workloads. Which approach would most effectively allocate GPU resources to maximize performance and flexibility?

- A. Assign a dedicated GPU to each VM to ensure consistent performance for each AI workload
- B. Use GPU passthrough to allocate full GPU resources directly to one VM at a time, based on the highest priority workload
- C. Deploy all AI workloads in a single VM with multiple GPUs to centralize resource management
- D. Implement GPU virtualization to allow multiple VMs to share GPU resources dynamically based on demand

Answer: D

Explanation:

Implementing GPU virtualization to allow multiple VMs to share GPU resources dynamically based on demand is the most effective approach for maximizing performance and flexibility in a virtualized AI environment. NVIDIA's GPU virtualization (e.g., via vGPU or GPU Operator in Kubernetes) enables time-slicing or partitioning (e.g., MIG on A100 GPUs), allowing workloads to access GPU resources as needed.

This optimizes utilization and adapts to varying demands, as outlined in NVIDIA's "GPU Virtualization Guide" and "AI Infrastructure

for Enterprise." A single VM (A) limits scalability. Dedicated GPUs per VM (B) wastes resources when idle. GPU passthrough (D) restricts sharing, reducing flexibility. NVIDIA recommends virtualization for efficient resource allocation in virtualized AI setups.

NEW QUESTION # 28

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