

Nebius Physical AI Certification Exam Guide

Role description

The Nebius Certified Physical AI Specialty Exam is intended for individuals who build data, training, and inference workflows for robotics and other systems that interact with the physical world. They use Nebius AI Cloud to post-train models, evaluate their behavior, and deploy inference.

They work with large language models (LLMs), vision-language models (VLMs), and vision-language-action models (VLAs). They use supervised fine-tuning (SFT) and tools such as LeRobot, select and orchestrate GPU resources, and optimize hyperparameters. They also build data collection pipelines and evaluate whether model behavior meets performance and safety requirements.

Target candidates

Software and hardware professionals who want to develop Physical AI workflows, including software engineers, mechanical engineers, and automotive engineers.

Candidates are expected to write Python and use basic Linux commands. Prior experience in machine learning, data science, or Nebius AI Cloud is not required.

Domains & Weighting

The exam includes the following content areas and their weightings. This guide doesn't cover every topic, but it provides helpful context to prepare for the exam.

Domain	Exam Weight
1. Post-training Physical AI models	~40%
2. Building Physical AI data pipelines	~25%
3. Evaluating and deploying inference	~20%
4. Integrating robotics applications	~15%

Exam Format

The assessment is delivered remotely and monitored with AI-assisted proctoring. It is delivered via a partner exam platform.

All questions in the exam follow the same format:

Multiple choice – one correct answer and three incorrect options (distractors).

There are no strict prerequisites. No pre-tests or additional eligibility checks are required.

Duration is limited to 1 hour.

Content Outline

1. Post-training Physical AI models

Skills in

- Running supervised fine-tuning jobs for LLMs, VLMs, and VLAs on Nebius AI Cloud
- Using LeRobot to train and fine-tune robot policies from demonstration data
- Configuring and tracking post-training experiments and hyperparameter searches

Expertise in

- Selecting GPU node counts and orchestration for model size, workload requirements, cost, and completion time
- Choosing hyperparameters and comparing configurations using experiment results
- Interpreting training and validation results to select models and robot policies for further evaluation

2. Building Physical AI data pipelines

Skills in

- Creating and preparing 3D assets for simulation and synthetic data generation
- Building collection pipelines for robot logs, sensor streams, and demonstrations
- Filtering, cleaning, augmenting, and organizing collected data into training and evaluation datasets

Expertise in

- Choosing real and synthetic data to cover the target tasks and operating conditions
- Identifying poor samples, labeling problems, and gaps in dataset coverage
- Selecting processing and augmentation methods that preserve task-relevant information

3. Evaluating and deploying inference

Skills in

- Setting up model inference on Nebius AI Cloud
- Configuring staging and production deployments with versioned model artifacts
- Running deployment evaluations against representative physical tasks and failure scenarios

Expertise in

- Assessing deployment readiness from task performance, safety checks, simulation results
- Selecting inference capacity to meet quality, latency, throughput, and cost requirements
- Deciding when to promote or roll back a release based on model behavior, latency, and failures

4. Integrating robotics applications

Skills in

- Connecting model inference and data pipelines to robot applications through APIs, services, and containers
- Tracking model and configuration versions across integrated systems
- Collecting logs, metrics, and diagnostics from robot applications and inference services

Expertise in

- Choosing cloud and edge execution for the application's latency and deployment requirements
- Tracing failures across data, models, inference services, and robot integration using available evidence
- Protecting device credentials, model artifacts, and operational data across the workflow

This exam guide is provided for informational purposes only and is subject to change without notice. The exam content, including but not limited to exam structure, format, domains, weightings, topics, pass scores, and target candidate description, may be updated, modified, or removed at any time. This guide should be used as a reference for preparation and not as a definitive or exhaustive list of exam content.

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