

OUR LEARNING EXCLUSIVE

- Custom exam prep software and materials
- Course-specific thinQtank® Learning publications to make the learning fun and engaging
- Hands-on Python labs with multimodal models on GPU-accelerated environments
- **We do not teach the test.** We always deliver valuable hands-on experience
- All reading material and study guides sent to you when you register
- Every course taught by AI engineers experienced with NVIDIA platforms
- Six months mentoring access to our engineers after the course

TRAINING CAMP FORMAT

thinQtank® Learning delivers this course as a **three-day instructor-led training camp**, Monday to Wednesday. About 55% lecture and 45% hands-on labs. Contact us for the schedule covering your dates.

PREREQUISITES

- No certification is required
- Recommended: A basic understanding of generative AI

TARGET AUDIENCE

- Associate AI Developer
- Machine Learning Engineer
- Data Scientist
- Software Engineer

CERTIFICATION

This course prepares you for the NVIDIA-Certified Associate: Generative AI Multimodal (NCA-GENM) exam.

Exam	NCA-GENM, 50–60 questions in 60 minutes
Delivery	Online, remote proctored (Certiverse)
Exam fee	\$125, set by NVIDIA
Renewal	Valid two years; retake to renew

COURSE OVERVIEW

thinQtank® Learning is offering a unique three-day training camp comprised of three days of instructor-led learning that gives students the knowledge and skills needed to explain the machine learning concepts behind multimodal models, work with image, audio, video and text data, run and evaluate experiments, optimize performance and apply trustworthy AI practices.

The camp follows the official NVIDIA NCA-GENM exam topics and study guide, with hands-on Python labs with multimodal models on GPU-accelerated environments throughout.

This course prepares you for **the NVIDIA-Certified Associate: Generative AI Multimodal (NCA-GENM) exam**.

WHAT YOU WILL BE ABLE TO DO

- Apply core ML/DL fundamentals: cross-validation, model comparison, residual networks and multimodal loss functions
- Analyze large datasets and attention maps to extract insights and spot confounding factors
- Develop, test and verify multimodal models and the quality of their data
- Integrate text, image, audio, time-series and geospatial data, including RAG and vector-database use cases
- Optimize training and inference with hyperparameter tuning and transfer learning
- Build U-Net and CLIP-based diffusion text-to-image models and use NVIDIA NeMo and Triton
- Apply trustworthy-AI principles: privacy, consent and bias mitigation

EXCLUSIVE LEARNING PACKAGE

- NCA-GENM reading plan and review guide
- NCA-GENM practice exams
- Lab notebooks you keep after the course
- Course video recordings for review

DELIVERY METHODS

- Instructor-led training
- Immersive live-online training
- On-site and custom delivery

NVIDIA CERTIFICATION PATHS

AI Infrastructure

NCA-AIO · NCP-AII · NCP-AIO ·
NCP-AIN · NCP-ARIData center, operations and
networking

Data Science

NCA-ADS · NCP-ADS

GPU-accelerated analytics and ML

Generative AI

NCA-GENL · NCA-GENM · NCP-
GENL · NCP-AAI

LLMs, multimodal and agents

3D and Simulation

NCP-OUSD

OpenUSD development

COURSE MODULES

01 Machine Learning and Deep Learning Foundations

03 Multimodal Learning, Fusion and Loss Functions

05 Experimentation: Developing and Testing Multimodal
Models

07 LLM Use Cases: RAG, Chatbots and Vector Databases

09 Generative Models: U-Nets, Diffusion and CLIP

11 Trustworthy AI

02 Neural Architectures: CNNs, Residual Networks and
Transformers

04 Data Analysis and Visualization for Multimodal Pipelines

06 Multimodal Data: Text, Image, Audio, Time-Series and
Geospatial

08 Performance Optimization and Transfer Learning

10 Prompt Engineering, NVIDIA NeMo and Triton

12 Exam Review

EXAM DOMAINS

Core Machine Learning and AI Knowledge		20%
Data Analysis		10%
Experimentation		25%
Multimodal Data		15%
Performance Optimization		10%
Software Development		15%
Trustworthy AI		5%

TERMS

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