

thinqtanklearning.com

AI Infrastructure · education services datasheet

OUR LEARNING EXCLUSIVE

- Custom exam prep software and materials
- Course-specific thinQtank[®] Learning publications to make the learning fun and engaging
- Hands-on labs and guided demos on GPU-accelerated infrastructure
- **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 data center infrastructure

TARGET AUDIENCE

- Data Center Technician
- Systems Administrator
- Network Engineer
- Solution / System Architect

CERTIFICATION

This course prepares you for the NVIDIA-Certified Associate: AI Infrastructure and Operations (NCA-AIIO) exam.

Exam	NCA-AIIO, 50 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 AI, machine learning and GPU computing concepts, describe the compute, storage and networking that AI infrastructure needs, and support day-to-day AI operations such as monitoring, scheduling and virtualization.

The camp follows the official NVIDIA NCA-AIIO exam topics and study guide, with hands-on labs and guided demos on GPU-accelerated infrastructure throughout.

This course prepares you for **the NVIDIA-Certified Associate: AI Infrastructure and Operations (NCA-AIIO) exam**.

WHAT YOU WILL BE ABLE TO DO

- Differentiate AI, machine learning and deep learning and explain key AI use cases and industries
- Compare GPU and CPU architectures and training vs. inference requirements
- Describe the NVIDIA software stack across the AI development and deployment lifecycle
- Identify compute, power, cooling and facility requirements for AI data centers
- Determine networking requirements for AI workloads and select high-speed network options, including DPUs
- Weigh on-prem vs. cloud infrastructure for accelerated computing clusters
- Describe AI cluster monitoring, orchestration, job scheduling and GPU virtualization essentials

EXCLUSIVE LEARNING PACKAGE

- NCA-AIIO reading plan and review guide
- NCA-AIIO 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-AIIO · NCP-AII · NCP-AIO · NCP-AIN · NCP-ARI Data 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 AI, Machine Learning and Deep Learning Fundamentals	02 AI Use Cases and Drivers of Adoption
03 GPU vs. CPU Architecture	04 Training vs. Inference Architecture
05 The NVIDIA AI Software Stack	06 Compute Platforms and Scaling GPU Infrastructure
07 Data Center Power, Cooling and Facility Requirements	08 AI Networking: Protocols, High-Speed Fabrics and DPUs
09 On-Prem vs. Cloud Infrastructure	10 AI Data Center Management and GPU Monitoring
11 Cluster Orchestration, Job Scheduling and Virtualization	12 Exam Review

EXAM DOMAINS		
Essential AI Knowledge		38%
AI Infrastructure		40%
AI Operations		22%



TERMS

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