

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 RAPIDS and GPU-accelerated ML
- **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 **four-day instructor-led training camp**, Monday to Thursday. About 50% lecture and 50% hands-on labs. Contact us for the schedule covering your dates.

PREREQUISITES

- No certification is required
- Recommended: Two to three years of hands-on accelerated data science and machine learning
- NCA-ADS or equivalent data science experience is a strong foundation

TARGET AUDIENCE

- Data Scientist
- Data Engineer
- Machine Learning Engineer
- AI DevOps Engineer

CERTIFICATION

This course prepares you for the NVIDIA-Certified Professional: Accelerated Data Science (NCP-ADS) exam.

Exam	NCP-ADS, 60–70 questions in 120 minutes
Delivery	Online, remote proctored (Certiverse)
Exam fee	\$200, set by NVIDIA
Renewal	Valid two years; retake to renew

COURSE OVERVIEW

thinQtank[®] Learning is offering a unique four-day training camp comprised of four days of instructor-led learning that gives students the knowledge and skills needed to analyze, prepare and manipulate large datasets on GPUs, use GPU and cloud computing effectively, build and tune machine learning models and run MLOps for accelerated data science workflows.

The camp follows the official NVIDIA NCP-ADS exam topics and study guide, with hands-on Python labs with RAPIDS and GPU-accelerated ML throughout.

This course prepares you for **the NVIDIA-Certified Professional: Accelerated Data Science (NCP-ADS) exam**.

WHAT YOU WILL BE ABLE TO DO

- Perform exploratory, time-series anomaly and graph analysis with cuGraph
- Design accelerated ETL and distributed multi-GPU processing with Dask
- Cleanse, transform and generate synthetic data with cuDF and RAPIDS
- Apply CRISP-DM and manage dependencies with Docker and Conda
- Engineer features, tune hyperparameters and train on single- and multi-GPU setups
- Optimize GPU memory with batching, mixed precision and optimal data types
- Benchmark, deploy and monitor GPU-accelerated models in production

EXCLUSIVE LEARNING PACKAGE

- NCP-ADS reading plan and review guide
- NCP-ADS 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-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 Accelerated Data Science and CRISP-DM

03 Graph Analytics with cuGraph

05 Synthetic Data and Pipeline Bottlenecks

07 Distributed Multi-GPU Processing with Dask

09 Environments: Docker, Conda and Data Types

11 Single- vs. Multi-GPU Training and Memory Optimization

13 Exam Review

02 Exploratory and Time-Series Data Analysis

04 Data Acquisition, Cleansing and Preprocessing with cuDF

06 Accelerated ETL and Data Caching

08 Profiling and Library Selection

10 Feature Engineering and Hyperparameter Optimization

12 MLOps: Benchmarking, Deployment and Monitoring

EXAM DOMAINS

Data Analysis		14%
Data Manipulation and Software Literacy		19%
Data Preparation		17%
GPU and Cloud Computing		16%
Machine Learning		15%
MLOps		19%

TERMS

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