

OUR LEARNING EXCLUSIVE

- Custom exam prep software and materials
- Course-specific thinQtank[®] Learning publications to make the learning fun and engaging
- Hands-on rack, cabling and validation exercises
- **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 or more years of enterprise data center operations, ideally high-density environments
- NCA-AIIO or equivalent data center experience is a strong foundation

TARGET AUDIENCE

- Data Center Infrastructure Technician
- Rack and Structured Cabling Technician
- Data Center Network Technician (Physical Layer)
- Data Center Facilities / Power and Cooling Engineer

CERTIFICATION

This course prepares you for the NVIDIA-Certified Professional: AI Rack and Interconnect (NCP-ARI) exam.

Exam	NCP-ARI, 70 questions in 120 minutes
Delivery	Online, remote proctored (Certiverse)
Exam fee	\$400, 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 plan and prepare high-density AI racks, install and support high-density cabling, test, verify and document the build, and work to the safety standards and compliance rules AI data centers require.

The camp follows the official NVIDIA NCP-ARI exam topics and study guide, with hands-on rack, cabling and validation exercises throughout.

This course prepares you for **the NVIDIA-Certified Professional: AI Rack and Interconnect (NCP-ARI) exam**.

WHAT YOU WILL BE ABLE TO DO

- Verify data center power, cooling, grounding and rack power redundancy (AC/DC racks, rPDUs, CDUs)
- Plan deployments and assess site readiness, documentation and inventory
- Prepare extra-wide AI racks, cable management accessories and containment clearances
- Select and install NVIDIA cables, OSFP/QSFP transceivers, InfiniBand NDR/XDR copper and MPO/APC fiber
- Design and install overhead cable support and slack management for ultra-high-density loads
- Test, inspect, document and troubleshoot links (optical power, BER, dirty connectors, bend radius)
- Apply electrical, fire, ESD and NVIDIA installation standards (DU-10438)

EXCLUSIVE LEARNING PACKAGE

- NCP-ARI reading plan and review guide
- NCP-ARI 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-OUUSD

OpenUSD development

COURSE MODULES

01 AI Data Center Power and Cooling Fundamentals

03 Pre-Deployment Planning and Site Assessment

05 Fiber and Copper Media: MMF, SMF, NDR/XDR

07 High-Density Cabling Installation and 50/50 Routing

09 Cable Support Systems and Weight Management

11 Signal Integrity Troubleshooting

13 Exam Review

02 Rack Power: AC vs. DC, rPDUs, CDUs and Grounding

04 Rack Infrastructure Preparation for AI Platforms

06 Transceivers: OSFP vs. QSFP and Optical Reach

08 Cable Bundling, Dressing, Cleaning and Inspection

10 Testing, Verification and Documentation

12 Safety, Standards and Compliance

EXAM DOMAINS

AI Infrastructure Basics for Data Centers		20%
Pre-Deployment Planning and Site Assessment for AI Data Centers		11%
Rack Infrastructure Preparation for AI Platforms		10%
High-Density Cabling Installation for AI Clusters		30%
Cable Support Systems and Weight Management		7%
Testing, Verification, and Documentation for AI Cabling		12%
Safety, Standards, and Compliance for Data Centers		10%

TERMS

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