

thinqtanklearning.com

3D and Simulation · 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 OpenUSD labs in Python
- **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 OpenUSD development with Python or C++

TARGET AUDIENCE

- OpenUSD Developer
- Pipeline Engineer
- Systems Integrator
- Data Engineer / Data Architect

CERTIFICATION

This course prepares you for the NVIDIA-Certified Professional: OpenUSD Development (NCP-OUUSD) exam.

Exam	NCP-OUUSD, 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 use OpenUSD composition, data modeling and data exchange, build pipelines, aggregate content, visualize scenes, debug and troubleshoot, and customize USD for 3D and simulation workflows.

The camp follows the official NVIDIA NCP-OUUSD exam topics and study guide, with hands-on OpenUSD labs in Python throughout.

This course prepares you for **the NVIDIA-Certified Professional: OpenUSD Development (NCP-OUUSD) exam**.

WHAT YOU WILL BE ABLE TO DO

- Model scene data with Usd/Sdf structures, prims, properties, primvars, time samples and schemas
- Author, design with and debug all composition arcs (LIVERPS)
- Build modular, reusable assets with native and point instancing
- Develop data-exchange importers, exporters and data mapping documents
- Design production pipelines: asset management, versioning, exporter hooks and flattening
- Visualize scenes with UsdGeom, UsdShade and UsdLux
- Extend USD with plugins, custom schemas, file format plugins and model kinds
- Introspect stages and optimize load and render performance

EXCLUSIVE LEARNING PACKAGE

- NCP-OUUSD reading plan and review guide
- NCP-OUUSD 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 OpenUSD Fundamentals: Setting the Stage	02 Data Modeling: Prims, Properties and Schemas
03 Composition Basics	04 Composition Arcs and LIVERPS Strength Ordering
05 Asset Structure and Content Aggregation	06 Asset Modularity and Instancing
07 Visualization: UsdGeom, UsdShade and UsdLux	08 Data Exchange Pipelines
09 Pipeline Development and Asset Management	10 Customizing USD: Plugins and Schemas
11 Debugging and Performance Optimization	12 Exam Review

EXAM DOMAINS		
Composition		23%
Data Exchange		15%
Pipeline Development		14%
Data Modeling		13%
Debugging and Troubleshooting		11%
Content Aggregation		10%
Visualization		8%
Customizing USD		6%



TERMS

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