

# **NVIDIA Training Course Catalog**

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#### Introduction

NVIDIA offers training for diverse needs, giving individuals and teams across organizations what they need to advance their knowledge in AI, accelerated computing, data science, data center administration, graphics and simulation, networking, and more.

With access to high-performance computing, you'll learn how to train, optimize, and deploy neural networks using the latest deep learning tools, frameworks, and SDKs. You'll also learn how to assess, parallelize, optimize, and deploy GPU-accelerated computing applications.

Our training program offers both self-paced online courses and instructor-led, prescheduled workshops. The self-paced courses range from 10 minutes to 8 hours and guide you through applying a specific technology, setting up a project, or administering solutions in a data center. Instructor-led workshops and boot camps go deeper into topic areas, teaching you how to implement a project or solution from end to end. Both types of courses give you valuable hands-on experience using the latest technologies.

## Why Choose NVIDIA for Training?

- > Learn how to build deep learning and accelerated computing applications for industries such as healthcare, robotics, autonomous driving, manufacturing, and more.
- Sain hands-on experience with the most widely used, industry-standard platforms including software, hardware, tools, and frameworks. Each student will have access to a fully configured, GPU-accelerated server in the cloud or access to NVIDIA solutions in our training lab.
- > Become proficient in administering NVIDIA hardware and software solutions such as DGX™, InfiniBand, Cumulus, NVIDIA AI Enterprise, and more.
- > Access instructor-led workshops and online courses from anywhere using just a laptop and internet connection.
- > Acquire real-world expertise through content designed in collaboration with industry leaders such as Children's Hospital of Los Angeles, Mayo Clinic, and PwC.
- > Earn NVIDIA certifications and course completion certificates to indicate subject matter competency and support your career growth.



For team training, contact an NVIDIA training advisor, who will work with you to create a customized plan that addresses your team's specific training needs and is aligned to your business objectives and priorities.

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## **Instructor-Led Workshops for Developers**

Workshop Name	Description	Prerequisites			
Accelerated Comput	ting				
Accelerating CUDA® C++ Applications With Multiple GPUs	Discover how to write CUDA C++ that efficiently and correctly use GPUs in a single node, dramatical performance of applications and cost-effective use of systems with Learn More	all available ly improving the making the most	C++ applica CUDA Comp stride loops memory tra Familiarity	al experience program itions, including the u piler (NVCC), kernel la s, host-to-device and insfers, and CUDA err with the Linux comma using makefiles to co	se of the NVIDIA unches, grid- device-to-host or handling. and line and
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	CUDA C++, NVCC, Nsight Systems	English, Simplified Chinese	8 hours	\$500 (excludes tax, if applicable)	Yes
Fundamentals of Accelerated Computing With CUDA C/C++	Learn how to accelerate and optir C++ CPU-only applications to app GPUs using the most essential Cl and the NVIDIA Nsight Systems p	Basic C/C++ competency, including familiarity with variable types, loops, conditional statements, functions, and array manipulations. No previous knowledge of CUDA programming is assumed.			
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	NVIDIA Nsight Systems, nsys	English, Korean, Japanese, Simplified Chinese, Traditional Chinese	8 hours	\$500 (excludes tax, if applicable)	Yes
Fundamentals of Accelerated Computing With CUDA Python	Explore how to use Numba—the j specializing Python function com and launch CUDA kernels to accel programs on massively parallel NV > Learn More	Basic Python competency, including familiarity with variable types, loops, conditional statements functions, and array manipulations. Also, must have NumPy competency, including the use of ndarrays and ufuncs.			
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	CUDA, Python, Numba, NumPy	English, Simplified Chinese, Traditional Chinese	8 hours	\$500 (excludes tax, if applicable)	Yes
Fundamentals of Accelerated Computing With OpenACC®	Find out how to write and configurallelization with OpenACC, optomovements between the CPU and and apply the techniques to accellaplace heat equation to achieve gains.	imize memory d GPU accelerator, lerate a CPU-only	familiarity v statements	or Fortran competer with variable types, low order, functions, and array order knowledge of GPU p	ops, conditional manipulations.
	> Learn More				
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	NVIDIA Nsight, OpenACC	English	8 hours	\$500 (excludes tax, if applicable)	Yes

Workshop Name	Description		Prerequisit	es		
Scaling CUDA C++ Applications to Multiple Nodes	Learn the tools and techniques needed to write CUDA C++ applications that can scale efficiently to clusters of NVIDIA GPUs.		Intermediate experience writing CUDA C/C++ applications.			
	> Learn More					
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	C++, CUDA, MPI, NVSHMEM	English, Simplified Chinese	8 hours	\$500 (excludes tax, if applicable)	Yes	
Data Science						
Accelerating Data Engineering Pipelines	Explore how to employ advanced data engineering tools and techniques with GPUs to significantly improve data engineering pipelines.		Intermediate knowledge of Python (list comprehension, objects). Familiarity with panda and introductory statistics (mean, median, mode) a plus.			
	> Learn More Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	pandas, cuDF, Dask, NVTabular, Plotly	English	8 hours	\$500 (excludes tax, if applicable)	Yes	
Enhancing Data Science Outcomes	Learn how to create an end-to-end, hardware- accelerated machine learning pipeline for large datasets. Throughout the development process, you'll use diagnostic tools to identify delays and learn to mitigate common pitfalls.		<ul> <li>Basic knowledge of a standard data science workflow on tabular data.</li> </ul>			
With Efficient Workflows			<ul> <li>Knowledge of distributed computing using Dask.</li> </ul>			
	> Learn More		Accelera ability to some ex	tion of the DLI's Funda ated Data Science cou o manipulate data usir sperience building mad using cuML.	rse or an ng cuDF and	
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	Python, cuDF, Dask, Plotly, English NVTabular, cuML, Forest Inference Library, PyTorch, and NVIDIA Triton™ Inference Server		8 hours	\$500 (excludes tax, if applicable)	Yes	
Fundamentals of Accelerated Data Science	Learn how to perform multiple analysis tasks on large datasets using NVIDIA RAPIDS™, a collection of data science libraries that allows end-to-end GPU acceleration for data science workflows.		NumPy. Also, must have familiarity with comm machine learning algorithms, including XGBoo			
	> Learn More		iinear regre	ssion, DBSCAN, K-Mea	ans, and SSSP	
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	RAPIDS, cuDF, XGBoost, cuML, cuGraph, Dask, cuPy, pandas, NumPy, Bokeh	English, Traditional Chinese, Japanese	8 hours	\$500 (excludes tax, if applicable)	Yes	

Workshop Name	Description		Prerequisit	es	
Deep Learning					
Applications of AI for Anomaly Detection	Learn to detect anomalies in large identify network intrusions using sunsupervised machine learning ted accelerated XGBoost, autoencoder adversarial networks (GANs).	supervised and chniques, such as	Experience (CNNs) and	with convolutional ne Python.	ural networks
	> Learn More				
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	RAPIDS, XGBoost, TensorFlow, Keras, pandas, autoencoders, GANs	English	8 hours	\$500 (excludes tax, if applicable)	Yes
Applications of AI for Predictive Maintenance	Discover how to identify anomalies time-series data, estimate the rem life of the corresponding parts, and information to map anomalies to fi	naining useful d use this	Experience	with Python and deep	o networks.
	> Learn More				
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	Python, TensorFlow, Keras, XGBoost, RAPIDS, cuDF, long short-term memory (LSTM), autoencoders	English, Simplified Chinese	8 hours	\$500 (excludes tax, if applicable)	Yes
Building Al-Based Cybersecurity Pipelines	Traditional cybersecurity methods barriers around your infrastructure from intruders. However, as enterp digitally transform, they're faced wo of devices, more sophisticated cyberstacks, and an incredibly vast netto protect—which means new cybersecures in the sexplored of approach is to address cybersecures cience problem: Better understar and activities across your network identify which transactions are typersecurity developers and pract harness the power of GPU comput implement cybersecurity solutions on a scale never before possible. We cybersecurity developers can creat pipelines for filtering, processing, a large volumes of real-time data. Brilevel of information security to dat Morpheus enables dynamic protect telemetry, and adaptive defenses fremediating cybersecurity threats.	e to protect it prises continue to with a proliferation persecurity work of data ersecurity. An alternative ity as a data and all the users so that you can poical and which pork lets titioners ting to shart perform with Morpheus, the optimized Al and classifying inging a new ta centers, the ordered and the continue of the continue o	<ul> <li>Professional data science ar analysis experience.</li> <li>Competency with the Pytholanguage.</li> <li>Competency with the Linux</li> </ul>		programming ommand line.
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	NVIDIA Morpheus, NVIDIA Triton Inference Server, RAPIDS, CLX, Helm, Kubernetes	English	8 hours	\$500 (excludes tax, if applicable)	Yes

Workshop Name	Description		Prerequisit	es	
Building Conversational Al Applications V2.0	Discover how to quickly build and deploy production-quality speech AI applications with real-time transcription and natural language processing capabilities.  > Learn More		Experience with Python coding and use of librar functions and parameters. Also, a fundamental understanding of a deep learning framework, such as TensorFlow, PyTorch, or Keras, and a basic understanding of neural networks.		
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	NVIDIA Riva, NVIDIA TAO Toolkit, Kubernetes	English	8 hours	\$500 (excludes tax, if applicable)	Yes
Building Deep	This course is primarily for data sc		> Basic Pyt	thon programming ex	perience.
Learning-Based Anti- Fraud Applications (Chinese only)	professionals working in the field of financial fraud modeling in banks. It teaches how to train, accelerate, and optimize fraud detection classifiers based on machine learning and deep learning.			ental understanding o rks (such as TensorFlo	
	> Learn More		> Basic kn	owledge of neural net	works.
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	RAPIDS, CuPy, PyTorch, Deep Graph Library, NVIDIA NeMo™, NVIDIA Triton Inference Server	Simplified Chinese	8 hours	\$500 (excludes tax, if applicable)	Yes
Building Transformer- Based Natural Language Processing	In this workshop, you'll learn how Transformers are used as the building blocks of modern large language models (LLMs). You'll then use these models for various NLP tasks, including text classification, named-entity recognition (NER), author attribution, and question answering. You'll also learn how to analyze various model features, constraints, and characteristics to determine which model is best suited for a particular use case based on metrics, domain specificity, and available resources.		Experience with Python coding and use of library functions and parameters. Fundamental understanding of a deep learning framework, such as TensorFlow, PyTorch, or Keras. And basi understanding of neural networks.		
	> Learn More				
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	PyTorch, pandas, NVIDIA NeMo, NVIDIA Triton Inference Server	English, Simplified Chinese	8 hours	\$500 (excludes tax, if applicable)	Yes
Computer Vision for Industrial Inspection	In this workshop, you'll learn how to quickly develop and deploy a machine learning model that uses deep learning for computer vision to perform defect classification and other visual recognition tasks. Using NVIDIA's own real production dataset as an example, this workshop illustrates how the solution can be easily applied to a variety of manufacturing and industrial inspection use cases.		of data processing and deep learning		
			<ul> <li>For a basic understanding of data processing and deep learning, we suggest Fundamental of Deep Learning.</li> </ul>		
	> Learn More			<del></del> -	
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	Python, pandas, DALI, NVIDIA TAO Toolkit, NVIDIA TensorRT™, and NVIDIA Triton Inference Server	English, Simplified Chinese	8 hours	\$500 (excludes tax, if applicable)	Yes

Workshop Name	Description		Prerequisites			
Data Parallelism: How to Train Deep Learning Models on Multiple GPUs	This workshop teaches you techniques for data- parallel deep learning training on multiple GPUs to shorten the training time required for data- intensive applications. Working with deep learning tools, frameworks, and workflows to perform neural network training, you'll learn how to decrease model training time by distributing data to multiple GPUs, while retaining the accuracy of training on a single GPU.		Experience with deep learning training using Python. See the Fundamentals of Deep Learning self-paced course here.			
	> Learn More					
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	PyTorch, PyTorch Distributed Data Parallel, NCCL	English, Simplified Chinese	8 hours	\$500 (excludes tax, if applicable)	Yes	
Fundamentals of Deep Learning	Learn how deep learning works through hands-on exercises in computer vision and natural language processing (NLP). You'll train deep learning models from scratch and pick up tricks and tools for achieving highly accurate results along the way. You'll also learn to leverage freely available, state-of-the-art pretrained models to save time and get your deep learning application up and running quickly.		An understanding of fundamental programming concepts in Python 3, such as functions, loops, dictionaries, and arrays. Also, familiarity with pandas data structures and an understanding of how to compute a regression line.  > Suggested materials to satisfy prerequisites Python Beginner's Guide			
	> Learn More  Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	Tensorflow, Keras, pandas, NumPy	English, Simplified Chinese, Japanese	8 hours	\$500 (excludes tax, if applicable)	Yes	
Model Parallelism: Building and Deploying Large Neural Networks	In this workshop, you'll learn how to scale training and deployment of LLMs and neural networks across multiple nodes, use various forms of model parallelism to overcome the challenges associated with large-model memory footprint, capture and understand training performance characteristics to optimize model architecture and deploy very large multi-GPU, multi-node models to production using NVIDIA Triton™ Inference Server.		<ul> <li>Good understanding of PyTorch, deep learning, and data parallel training concepts</li> <li>Practice with multi-GPU training and natura language processing is useful, but optional.</li> </ul>			
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	PyTorch, Megatron-LM, DeepSpeed, Slurm, NVIDIA Triton Inference Server, NVIDIA Nsight	English, Korean, Simplified Chinese	8 hours	\$500 (excludes tax, if applicable)	Yes	
Generative AI and L	arge Language Models (LLMs	)				
Building RAG Agents With LLMs	Learn how to design retrieval-augmented generation (RAG) systems and bundle them into deliverable formats. Along the way, you'll learn advanced LLM composition techniques for internal reasoning, dialog management, and tooling.		<ul> <li>Introductory deep learning, with comfort wit PyTorch and transfer learning preferred.</li> <li>Intermediate Python experience, including object-oriented programming and libraries.</li> </ul>			
	> Learn More	Languages	Duration	Price	Cortificata	
	Tools, Libraries, Frameworks  Python, LangChain, NVIDIA AI Foundation endpoints, FAISS, Gradio, LangServe, FastAPI	<b>Languages</b> English	<b>Duration</b> 8 hours	Price \$500 (excludes tax, if applicable)	<b>Certificate</b> Yes	

Workshop Name	Description	Prerequisites				
Building Transformer- Based Natural	Learn how to apply and fine-tune a based deep learning model to natu			ce with Python coding nctions and paramete		
Language Processing Application	processing (NLP) tasks.  > Learn More		<ul> <li>Fundamental understanding of a deep learning framework such as TensorFlow, PyTorch, or Keras.</li> </ul>			
				lerstanding of neural	networks.	
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	PyTorch, pandas, NVIDIA NeMo, NVIDIA Triton Inference Server	English	8 hours	\$500 (excludes tax, if applicable)	Yes	
Efficient Large Language Model	Learn a variety of techniques to ef customize pretrained LLMs for you	ır specific use		nal experience with t ning language.	he Python	
Customizations	cases—without engaging in the co intensive and expensive process of your own model or fine-tuning a m weights. Using the open-source N	pretraining odel's internal		y with fundamental d e model architecture,		
	framework, you'll learn prompt eng various parameter-efficient fine-tu	framework, you'll learn prompt engineering and various parameter-efficient fine-tuning methods to customize LLM behavior for your organization.  > Learn More		y with a modern Pyth ramework (PyTorch p		
	,			Familiarity working with out-of-the-box pretrained LLMs.		
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	Python, NVIDIA NeMo, GPT, LLaMA, HuggingFace	English	8 hours	\$500 (excludes tax, if applicable)	Yes	
Generative AI With Diffusion Models	Get started with gen Al application development with this hands-on course where you'll learn how to build a text-to-image generative Al application using the latest techniques. Generate images with diffusion models and refine the output with various optimizations. Build a denoising diffusion model from the U-Net architecture to context embeddings for greater user control.		<ul> <li>Good understanding of PyTorch</li> <li>Good understanding of deep learning</li> </ul>			
	> Learn More					
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	PyTorch, CLIP	English	8 hours	\$500 (excludes tax, if applicable)	Yes	
Rapid Application Development Using Large Language Models	In this course, you'll gain a strong understanding and practical knowledge of LLM application development by exploring the open-source ecosystem, including pretrained LLMs, that can help you get started quickly developing LLM-based applications.		Introductory deep learning, with comfort with PyTorch and transfer learning preferred Content covered by DLI's Getting Started With Deep Learning or Fundamentals of Dee Learning courses, or similar experience is sufficient.			
	> Learn More		object-or Content o	iate Python experiend iented programming covered by Python Tu ols.com) or similar exp 	and libraries. torial	
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	Python, PyTorch, HuggingFace, transformers, LangChain, LlamaIndex	English	8 hours	\$500 (excludes tax, if applicable)	Yes	

Workshop Name	Description		Prerequisite	s	
Graphics and Simula	tion				
Bootstrapping Computer Vision Models with Synthetic Data	Learn how to use NVIDIA Omniverse Replicator, a core Omniverse extension, to accelerate the development of computer vision models. Generate accurate, photorealistic, physics-conforming synthetic data to ease the expensive, time-consuming task of labeling real-world data. Omniverse Replicator accelerates AI development at scale and reduces time to production.		<ul> <li>Intermediate understanding of Python (including classes, objects, and decorators).</li> <li>Basic understanding of Machine Learning and Deep Learning concepts and pipelines.</li> </ul>		
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	Omniverse Replicator, Omniverse Defect Extension	English	8 hours	\$500 (excludes tax, if applicable)	Yes
Building Digital Avatar Pipelines With NVIDIA Omniverse Audio2Face and Riva (Chinese only)  This course, from an end-to-end application development perspective, will provide you with detailed guidance on how to use NVIDIA Omniverse Audio2Face and the interactive speech suite Riva to build virtual digital humans.  > Learn More		•	non programming exp ntal understanding of works.		
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	NVIDIA Omniverse Audio2Face, NVIDIA Riva, PyTorch	Simplified Chinese	8 hours	\$500 (excludes tax, if applicable)	Yes

### **Online, Self-Paced Courses for Developers**

Course Name	Description		Prerequisites		
Accelerated Comput	ting Fundamentals				
Accelerating CUDA C++ Applications With Concurrent Streams	CUDA C/C++ applications by overlapping memory transfers to and from the GPU with computations on the GPU.		Professional experience programming CUDA C++ applications, including the use of the not compiler, kernel launches, grid-stride loops, host-to-device and device-to-host memory transfers, and CUDA error handling; Experience using Makefiles to compile C/C++ code.		
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
		English	4 hours	\$30 (excludes tax, if applicable)	Yes
An Even Easier ntroduction to CUDA	Learn the basics of writing paralle run on NVIDIA GPUs.	el CUDA kernels to	Competenc	y writing applications	in CUDA C/C+-
	> Learn More				
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	C/C++	English	1 hour	Free	N/A
Fundamentals of Accelerated Computing With CUDA Python	Explore how to use Numba—the just specializing Python function compand launch CUDA kernels to accel programs on massively parallel NV	piler—to create erate Python	with variable statements Also, must h	on competency, includi e types, loops, condition, functions, and array in have NumPy competer darrays and ufuncs.	onal manipulations
	> Learn More			·	
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	CUDA, Python, Numba, NumPy	English, Simplified Chinese, Traditional Chinese	8 hours	\$90 (excludes tax, if applicable)	Yes
Fundamentals of Accelerated Computing With OpenACC	Find out how to build and optimize heterogeneous applications on m clusters using a combination of O aware MPI, and NVIDIA profiling to	ultiple GPU penACC, CUDA-	Basic exper	ience with C/C++	
	> Learn More				
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	OpenACC, C/C++	English	8 hours	\$90 (excludes tax, if applicable)	N/A
Getting Started With Accelerated Computing With CUDA C/C++	Discover how to accelerate and op C++ CPU-only applications to leve of GPUs using the most essential and the Nsight Systems profiler.	rage the power	with variable statements No previous	- competency, includin e types, loops, conditio , functions, and array r knowledge of CUDA p	onal manipulations
	> Learn More		assumed.		
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	C/C++, CUDA	English, Japanese, Korean, Simplified Chinese, Traditional Chinese	8 hours	\$90 (excludes tax, if applicable)	Yes

Course Name	Description		Prerequisit	es	
GPU Acceleration With the C++ Standard Library	Learn to write simple, portable, p applications using only standard features that can be compiled wito take advantage of NVIDIA GPL environments.	C++ language thout modification		evel experience with C th C++ lambdas and s	
	> Learn More				
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	C++, NVIDIA HPC SDK	English	2 hours	\$30 (excludes tax, if applicable)	N/A
Optimizing CUDA Machine Learning Codes With NVIDIA Nsight™ Profiling Tools	NVIDIA Developer Tools are a coll applications, spanning desktop a that enable developers to build, of develop class-leading and cutting using the latest visual computing NVIDIA. In this course, you'll learn of two powerful NVIDIA develope Systems and Nsight Compute.	nd mobile targets, debug, profile, and g-edge software g hardware from n the effective use	using CUDA	with machine learning A. We suggest <mark>Fundam d Computing with CUD</mark>	entals of
	Nsight Systems provide developed wide visualization of an application Developers can optimize bottlene efficiently across any number or GPU—from large servers to the son chip. Nsight Compute is an interprofiler for CUDA applications. It performance metrics and API delinterface and command-line tool	on's performance. ecks to scale size of CPU and smallest systems teractive kernel provides detailed bugging via a user			
	By the time you complete this contouse Nsight Systems and Nsight analyze and optimize CUDA applications to analyze overall application structure parallelization opportunities before Nsight Compute to analyze and coud CUDA kernels.	nt Compute to cations. Following ng Nsight Systems ucture and explore ore turning to			
	> Learn More				
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	NVIDIA Nsight Systems, NVIDIA Nsight Compute	English	2 hours	\$30 (excludes tax, if applicable)	N/A
Scaling GPU- Accelerated Applications With the C++ Standard Library	In this interactive, hands-on worl the followup to GPU Acceleratior Standard Library, you'll learn how GPU-accelerated, hybrid applicat standard language features along	n With the C++ to write scalable, ions using C++	working wit algorithms; hybrid appl communica	evel experience with C th C++ lambdas and st experience developin- ications that require ir ation; comfort working	candard library g C++/MPI nter-rank with C++
	> Learn More			y primitives such as st and andstd::thread.	d::thread,
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	C++, NVIDIA HPC SDK, MPI	English	2 hours	\$30 (excludes tax, if applicable)	N/A

Course Name	Description		Prerequisites				
Scaling Workloads Across Multiple GPUs With CUDA C++		applications that can take advantage of all available			Competency writing applications in CUDA C/C+		
	> Learn More						
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate		
	C/C++, accelerated computing, CUDA	English	4 hours	\$30 (excludes tax, if applicable)	Yes		
Data Science							
Accelerate Data Science Workflows With Zero Code	In this workshop, you'll learn to us speed up your CPU-based data so			rstanding of data proc of a standard data sci data.			
Changes	> Learn More		Experience data analyt	using common Pytholics.	n libraries for		
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate		
	CUDA, MPI, NVSHMEM	English, Simplified Chinese	6 hours	\$90 (excludes tax, if applicable)	Yes		
Accelerating End- to-End Data Science Workflows	Explore how to perform multiple a on large datasets using RAPIDS, a data science libraries that allows acceleration for data science work	collection of end-to-end GPU	Experience and NumPy	with Python, ideally in :	cluding panda		
	> Learn More						
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate		
	RAPIDS, cuDF, cuML, cuGraph, Apache Arrow	English, Simplified Chinese	6 hours	\$90 (excludes tax, if applicable)	Yes		
RAPIDS Accelerator for Apache Spark	In this training lab, we'll walk thron	luding running	<ul> <li>Basic experience with Linux terminal commands.</li> </ul>				
	SQL queries on CPU and GPU in S into the toolset that helps enable		> Basic experience with Python				
	> Learn More		<ul><li>Basic exp or panda</li></ul>	oerience with Spark, P s	ySpark,		
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate		
	RAPIDS, Spark	English	2 hours	\$30 (excludes tax, if applicable)	N/A		
Deep Learning							
Building a Brain in 10 Minutes	This one-click notebook explores psychological inspirations for the	_	concepts in	anding of fundamenta Python 3 such as fun			
•	first neural networks.		dictionaries	s, ariu arrays.			
•			dictionaries	s, allu allays.			
•	first neural networks.	Languages	Duration	Price	Certificate		

Course Name	Description		Prerequisit	es		
Building Real-Time Video Al Applications	Gain the knowledge and skills need real-time transformation of raw vid widely deployed camera sensors into based insights.	eo data from	language, s using panda	Competency in the Python 3, programming language, some experience manipulating data using pandas DataFrames, and familiarity with deep networks (specifically variations of CNNs).		
	> Learn More					
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	NVIDIA DeepStream, NVIDIA TAO Toolkit, and NVIDIA TensorRT	English, Simplified Chinese	8 hours	\$90.00 (excludes tax, if applicable)	N/A	
Deploying a Model for Inference at Production Scale	Learn how to deploy your own mach models on a GPU server.	hine learning		with at least one mach such as PyTorch, Tens r.	_	
	> Learn More		Donation	Duise	0	
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	NVIDIA Triton	English	4 hours	\$30 (excludes tax, if applicable)	N/A	
Digital Fingerprinting With Morpheus	In this course, you'll get hands-on ex- developing and deploying the NVIDI fingerprinting AI workflow that enal data visibility and drastically reduce detect threats. You'll also hear from experts from a variety of institution use NVIDIA AI frameworks and tools cybersecurity solutions.	A digital bles 100% s the time to cybersecurity s about how to	familiarity v	l doesn't have any pre vith defensive cyberse ux command line are a	ecurity themes	
	> Learn More					
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	NVIDIA Morpheus Al framework, NVIDIA Triton Inference Server	English	1 hour	Free	N/A	
Disaster Risk Monitoring Using Satellite Imagery	Learn how to build and deploy a demodel to automate the detection of using satellite imagery. This workflow applied to lower the cost, improve the and significantly enhance the effect various natural disaster management.	of flood events by can be the efficiency, tiveness of	language  > Basic undeep lead of convolutions  > Interest	derstanding of machi Irning concepts, speci Ilutional neural netwol	ne learning and fically variations rks (CNNs), and	
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	NVIDIA DALI®, the NVIDIA TAO Toolkit, NVIDIA TensorRT, NVIDIA Triton Inference Server	English, Simplified Chinese	10 hours	Free	Yes	
Getting Started With Al on Jetson Nano	Discover how to build a deep learni project with computer vision mode NVIDIA Jetson Nano Developer Kit.	ls using the	Basic famili required).	arity with Python (hel	pful, not	
	> Learn More					
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	PyTorch, Jetson Nano	English, Simplified Chinese, Japanese, Korean	8 hours	Free (hardware required)	Yes	

Course Name	Description	Prerequisites			
Getting Started With Deep Learning	Explore the fundamentals of deep training neural networks and using improve performance and capabili	g results to	program	rstanding of fundame iming concepts in <b>Pyt</b> is, loops, dictionaries,	hon 3, such as
	> Learn More			ty with <b>pandas data s</b> Inderstanding of how <mark>on line</mark>	
				ed materials to satisfy Beginner's Guide	y prerequisites:
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	TensorFlow 2 with Keras, pandas	English, Simplified Chinese	8 hours	\$90 (excludes tax, if applicable)	Yes
Getting Started With	Learn how to categorize segments	s of an image.	Basic exper	ience training neural r	networks.
Image Segmentation	> Learn More				
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	TensorFlow 2 with Keras	English	2 hours	\$30 (excludes tax, if applicable)	N/A
Integrating Sensors With NVIDIA DRIVE	Find out how to integrate automotive sensors into your applications using NVIDIA DRIVE.		Basic experience in C++ and Linux terminal commands.		
	> Learn More				
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	C++, NVIDIA DriveWorks	English	2 hours	\$30 (excludes tax, if applicable)	N/A
Introduction to Graph Neural Networks	Learn the basic concepts, models, and applications of graph neural networks.		Competency in the <b>Python 3</b> programming language. Experience with deep neural networks		
	> Learn More		(specifically	variations of <b>CNNs</b> ).	
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	Deep Graph Library, PyTorch	English	2 hours	\$30 (excludes tax, if applicable)	N/A
Introduction to Physics-Informed	High-fidelity simulations in science a are computationally expensive and t		Familiarity with the Python programming language		
Machine Learning With NVIDIA Modulus	for quick iterative use cases, from de optimization. NVIDIA Modulus, the p	hysics machine	An understanding of partial differential equations and their use in physics.		
	learning platform, turbocharges such use cases by building physics-based deep learning models that are 100,000X faster than traditional methods and offer high-fidelity simulation results.		Familiarity with machine learning concepts like training and inference.		
	Upon completion, you'll understan building blocks of Modulus and the physics-informed deep learning. Younderstand how the Modulus fran with the overall Omniverse platfor	e basics of ou'll also nework integrates			
	> Learn More				
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	NVIDIA Modulus	English	4 hours	\$30 (excludes tax, if applicable)	N/A

Course Name	Description		Prerequisit	es	
Generative AI and La	arge Language Models (LLMs	s)			
Augment Your LLM Using Retrieval- Augmented Generation	Retrieval-augmented generation ( to-end architecture that combine retrieval component with a respor this introductory course, we proviousing components that NVIDIA us workflow will jump-start you on yo journey.	s an information- nse generator. In de a starting point les internally. This	None		
	> Learn More				
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	N/A	English	1 hour	Free	N/A
Building RAG Agents for LLMs	Agents powered by LLMs are quici popularity. An especially powerful development has been the popular retrieval-based LLM systems that informed conversations by using the documents, and planning their apcourse will observe how you can dosystem in practice and scale up you meet the demands of users and colored to be a compared to be a consequence.	recent rization of can hold cools, looking at proaches. This eploy an agent our system to	comfort preferre > Interme	tory deep learning kn with PyTorch and trai d. diate Python experien riented programming	nsfer learning ce, including
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	N/A	English	8 hours	Free	Yes
Generative Al Explained	Generative AI describes technolog to generate new content based or inputs. In this course, you will learn concepts, applications, as well as and opportunities in this exciting.	n a variety of n Generative Al the challenges		standing of Machine ing concepts	Learning and
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	N/A	English	2 hours	Free	N/A
Generative AI With Diffusion Models	In this workshop, you'll train deep from scratch and learn tools and thighly accurate results. You'll also freely available, state-of-the-art pto save time and get your deep lead up and running quickly.	ricks to achieve learn to leverage pretrained models	concepts in	anding of fundamenta Python such as funct s, and arrays.	
	> Learn More				
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	TensorFlow 2 with Keras, pandas	English	8 hours	\$90 (excludes tax, if applicable)	Yes

Course Name	Description		Prerequisites			
Introduction to Transformer-Based Natural Language	In this course, you'll learn how tran	modern large	> Basic und concepts	derstanding of deep l	earning	
Processing	language models (LLMs). You'll the models for various NLP tasks, inclu classification, named-entity recogn author attribution, and question an	iding text nition (NER),		<ul> <li>Basic understanding of language modeling and transformers.</li> </ul>		
	> Learn More					
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	NVIDIA NeMo	English	6 hours	\$30 (excludes tax, if applicable)	Yes	
Prompt Engineering With Llama 2	In this course, you'll interact with a engineer Llama 2 models to analyz generate text, and be an Al assista	e documents,	Experience vusing Pytho	with deep learning tra n.	ining	
	> Learn More					
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	Llama 2, HuggingFace	English	3 hours	\$30 (excludes tax, if applicable)	N/A	
Synthetic Tabular Data Generation Using	Synthetic data generation (SDG) is a data- augmentation technique necessary for increasing the robustness of models by supplying training data. In this course, you'll explore the use of transformers for synthetic tabular data generation. > Learn More		<ul> <li>Competency in the Python 3 programming language.</li> </ul>			
Transformers			<ul> <li>Basic understanding of machine learning an deep learning concepts and pipelines.</li> </ul>			
			> Experien with tabu	ce building machine le ılar data	earning models	
			> Basic und	derstanding of langua sformers.	ige modeling	
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	NVIDIA NeMo	English	4 hours	\$30 (excludes tax, if applicable)	N/A	
Graphics and Simula	ation					
Assemble a Simple Robot in NVIDIA Isaac Sim™	In this course, you'll step through the "Assemble a Simple Robot" tutorial to rig a two-wheel mobile robot in a live NVIDIA Isaac Sim GPU environment.		A Windows or Linux computer with the ability to install Omniverse Launcher and Omniverse applications; internet bandwidth sufficient to			
	> Learn More		support the (performand	Isaac Sim client/servo ce will vary).	er stream	
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	NVIDIA Isaac Sim	English	30 minutes	Free	N/A	
Build Beautiful, Custom UI for 3D Tools on NVIDIA Omniverse	Experience the NVIDIA Omniverse platform for builders and creators Become a master in UI with a deep Omniverse Kit's powerful omni.ui s frameworks. In this self-paced couyour own custom UI for workflows with hands-on exercises.	of virtual worlds. I dive into NVIDIA uite of tools and rse, you'll build	required). Su	arity with Python (help uggested materials to s: The Python Tutoria	satisfy	
	> Learn More					
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	Omniverse Code, Visual Studio Code Python, and the Python Extension	e, English, Simplified Chinese	90 minutes	Free	N/A	

Course Name	Description		Prerequisit	es	
Building a 3D Product Configurator With OpenUSD and Omniverse	In this hands-on lab, you'll unlock the power of OpenUSD to build a real-time configurator in NVIDIA Omniverse. Along the way, you'll learn about workflows, asset considerations, and USD composition concepts that you can apply directly to your own development process.  > Learn More		Intermediate Python experience, including object-oriented programming and libraries.		
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	This lab requires a machine with an NVIDIA RTX GPU.	English	2 hours	Free	N/A
Develop, Customize, and Publish in NVIDIA Omniverse With Extensions	Want to change the functionality a (UI) of NVIDIA Omniverse? Learn ho the Omniverse experience with ext Python code.	w to customize		erstanding of Python ing of computer grapl uired.	
	> Learn More				
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	Omniverse Code, Visual Studio Code Python, and the Python Extension	, English	8 hours	Free	Yes
Easily Develop Advanced 3D Layout Tools on NVIDIA Omniverse	Get hands-on experience with NVIDIA the platform for connecting and crea accurate, 3D virtual worlds. See how e your own custom scene layout tools i with a few lines of Python script. In the course, you'll build your own customs Omniverse with hands-on exercises in and Python.	ting physically easy it is to create n Omniverse Code nis self-paced scene layout in	concepts-s values-and programmin	erstanding of comput uch as vertices, mesh an understanding of t ng concepts in Pythor onaries, and arrays.	es, and RGB fundamental
	> Learn More				
	Tools, Libraries, Frameworks Universal Scene Description	English, Simplified Chinese	<b>Duration</b> 2 hours	<b>Price</b> Free	<b>Certificate</b> N/A
Essentials of Developing Omniverse Kit Applications	In this course, participants will lear and how to create one, how to add to applications, how to define the lapplication and how to package an application.  > Learn More	extensions ayout of an	<ul><li>A basic useful</li><li>Creating</li><li>Using Gi</li></ul>	understanding of Pyth understanding of com but not required. I an extension for Omi thub. use terminal command	puter graphics niverse.
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	NVIDIA NeMo	English	4 hours	\$30 (excludes tax, if applicable)	N/A

Course Name	Description		Prerequisites		
Essentials of USD in NVIDIA Omniverse	Universal Scene Description (Oper transforming 3D data modeling according industries and is poised to be the that enables the 3D evolution of the metaverse. In this hands-on to you'll learn about data modeling us attributes, relationships, and cust composition for scene assembly at The hands-on portion of the train the USD Python API to experiment fundamental concepts of USD.	An understanding of fundamental programming concepts in Python 3 such as functions, loops, dictionaries, and arrays.			
	> Learn More	Languages	Duration	Price	Certificate
	Tools, Libraries, Frameworks  OpenUSD, Omniverse	<b>Languages</b> English	2 hours	\$30 (excludes tax, if applicable)	N/A
Fundamentals of Working With OpenUSD	In this lab, we'll cover the fundame with Universal Scene Description You'll learn how to use USD for no workflows, how layers can help wir of scene composition, and how to separation and reuse it to accelerate in industrial use cases.  > Learn More	(OpenUSD). ndestructive th ease and speed use USD for data	concepts in	An understanding of fundamental programming concepts in Python 3 such as functions, loops, dictionaries, and arrays.	
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	This lab requires a machine with an NVIDIA RTX GPU.	English	2 hours	Free	N/A
Getting Started With USD for Collaborative 3D Workflows	Learn how to generate a scene usin Universal Scene Description ASCII Upon completion, you'll be able to scenes within the USD framework strong foundation to use it in app NVIDIA Omniverse, Maya, Unity, a > Learn More	(.USDA) files. create your own and will have a lications, such as	concepts-s values-and programmin	lerstanding of comput uch as vertices, mesh an understanding of f ng concepts in Python onaries, and arrays.	es, and RGB fundamental
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	Universal Scene Description	English, Simplified Chinese	2 hours	Free	N/A
How to Build a Native OpenUSD XR Application	Learn how to take advantage of Ur Description (OpenUSD) to accelera reality (XR) development and enhan like never before. This session will e skills and tools necessary to build, stream your own OpenUSD native of using NVIDIA Omniverse and NVIDIA	te your extended nce visual fidelity equip you with the customize, and XR applications		te Python experience, nted programming and	-
	> Learn More				
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	This course requires a VR headset and an NVIDIA RTX GPU.	: English	2 hours	Free	N/A

Course Name	Description		Prerequisites			
How to Build Customer 3D Scene Manipulator Tools on NVIDIA Omniverse	See how you can build advanced tools on the modular, easily extensible Omniverse platform. You'll learn from the Omniverse developer ecosystem team how you can extend and enhance the 3D tools you know and love today. In this self-paced course, you'll build your own custom scene manipulator tools in Omniverse with hands-on exercises writing a few lines of Python code.		Basic familiarity with Python (helpful, not required). Suggested material to satisfy prerequisites: The Python Tutorial.			
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	Omniverse Code, Visual Studio Code, Python, and the Python Extension	English, Simplified Chinese	90 minutes	Free	N/A	
How to Build OpenUSD Applications for Industrial Digital Twins	This lab introduces the basics of the Omniverse development platform. to get started building 3D application that deliver the functionality needs industrial use cases and workflows and reviewing large facilities such a warehouses, and more.  > Learn More	You'll learn how ions and tools ed to support for aggregating	Intermediate	-		
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	This lab requires a machine with an NVIDIA RTX GPU.	English	2 hours	Free	N/A	
Introduction to Robotic Simulations in NVIDIA Isaac Sim	Robotic automation has enjoyed gree recent years with increasing hardwadriving innovation in simulation and In this course, we introduce you to be Omniverse's solution for simulation. You'll learn how to tap into the simulation and physics logic. This can be done pusing Omniverse Kit and Pixar USD of the course will use Isaac Sim Core to low-level operations in an object-orie the end of the course, you'll be able control NVIDIA JetBot™ and Franka Ecoordinate them together to perform The skills covered in this course are prerequisites for working with Isaac good starting point for exploring Isa Omniverse applications. The course interested in 3D scene specification simulation, but it's also useful for resto expand their toolkits and seasone interested in exploring design patter Kit development.	re capabilities machine learning. saac Sim, NVIDIA and robotics. lation loop of a 3D th objects, robots, programmatically commands, but to wrap these ented fashion. By to simulate and Emika robots and m a handoff. direct Gym and create a ac Sim and other is great for those and robotic searchers looking ed developers	with Pyth function: > Comfort operation: > A Window Omnivers	<ul> <li>2 hours Free N/A</li> <li>Intermediate knowledge and general comwith Python 3. This includes familiarity wfunctions, classes, and basic design patters operations.</li> <li>A Windows or Linux machine with NVIDIA Omniverse and the Omniverse Streaming Client app.</li> </ul>		
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate	
	Isaac Sim, Omniverse Kit, NumPy	English, Simplified Chinese	4 hours	\$30 (excludes tax, if applicable)	N/A	

Workshop Name	Description		Prerequisite	es	
Synthetic Data Generation for Training Computer Vision Models	How much data is enough? This is a question when fine-tuning or traini vision models. In cases where data limiting factor, we can use syntheti Omniverse Replicator streamlines of data generation (SDG) using 3D assingle application, with the ability trappearance and format of the data highlights one of the ways deep lead Omniverse can be used together to learning workloads.	ng computer collection is a c data! NVIDIA synthetic sets into a o modify the . This lab irning tools and	learn abo tutorials > Basic un Deep Lea	f Python I decorators): Python.org The Learning and sipelines:learn The Learning	
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	NVIDIA Omniverse Replicator, NVIDIA Triton Inference Server, PyTorch	English	3 hours	\$30	N/A
Infrastructure					
Introduction to Al in the Data Center	Explore AI, GPU computing, NVIDIA architectures, and how to implement workloads in the enterprise data ce  Learn More	nt and scale Al		edge of enterprise ne I data center operatio	
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam
	Artificial intelligence, machine learning, deep learning, GPU hardware and software	English	4 hours	\$49 (excludes tax, if applicable)	Available
Introduction to NVIDIA DOCA™ for DPUs	The NVIDIA DOCA Software Frames developers rapidly create application top of NVIDIA BlueField data pro (DPUs). Together, DOCA and the Blue deliver breakthrough networking, s storage performance with a compridevelopment platform.  In this self-paced course, you'll lear concepts of DOCA as a platform for data center computing on BlueField completion, participants will be equintroductory knowledge that will enbegin using DOCA and DPUs to devithat accelerate your data centers size.	ons and services ocessing units ueField DPU ecurity, and ehensive, open on the basic raccelerated did DPUs. Upon uipped with nable you to relop applications	how it re  > Suggeste  • Enterpri  • Data Ce  • Data Ce  > Some we networki  > Suggeste  • Introdue  • Hardwa	ty with software archi lates to and executes ed materials to satisfy ise Data Center Network inter: Overview inter: Virtualization orking knowledge of dang. ed materials to satisfy cing How Computers Wo are Acceleration the Execution and Computers	on hardware.  / prerequisite:  king  ata center  / prerequisite:  rk
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certificate
	NVIDIA DOCA SDK	English, Simplified	2 hours	Free	N/A

Chinese

## **Instructor-Led Workshops for Administrators**

Workshop Name	Description		Prerequisites		
Al and Data Science					
NVIDIA AI Enterprise Administration: Public Training	This hands-on training course ex installation, configuration, operat management of NVIDIA AI Enterp	tion, and	None.		
	> Learn More				
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam
	N/A	English	12 hours	\$1,500	N/A
Cluster Administrat	ion				
NVIDIA Base Command™ Manager	This course provides an overview Manager, including managing not images, monitoring devices and jusers, and configuring workload in Learn More	des and software obs, managing	None.		
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam
	Base Command Manager	English	12 hours	Contact us	N/A
Ethernet Cumulus					
Cumulus® Linux: Public Bootcamp	Learn how to install, deploy, confi troubleshoot Cumulus-based net offers a perfect blend of hands-o theoretical education.	tworks. This course	None.		
	> Learn More				
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam
	Cumulus Linux switches	English	12 hours	\$1,500	Available
Cumulus Linux: Private Workshop	In this hands-on private training, NVIDIA Cumulus OS architecture, configuration, operation, and man Cumulus Linux running on NVIDIA	, installation, nagement of	None.		
	> Learn More				
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam
	Cumulus Linux switches	English	20 hours	Contact us	Available
NVIDIA Cumulus Linux: Customized Advanced Training	This course focuses on how to be state-of-the-art data center or s emphasis on troubleshooting. The advanced topics such as filtering (QoS), Ethernet VPN multihoming monitoring, and active testing.	torage fabric with e course covers , quality of service	None.		
	> Learn More				
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam
	Cumulus Linux switches	English	12 hours	Contact us	N/A

Workshop Name	Description		Prerequisit	es		
InfiniBand						
InfiniBand Customized Course	In this course, you'll learn about I architecture and how to manage troubleshoot your InfiniBand net	, monitor, and	that need t and trouble	Network administrators and IT professionals that need to install, configure, manage, monitor, and troubleshoot the configuration and performance of InfiniBand networks.		
	> Learn More	_	·			
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam	
	InfiniBand networks	English	16 hours	Contact us	Available	
InfiniBand Professional Customized Training	In this course, you'll learn about I Cumulus architecture and how to and troubleshoot triad deployme	manage, monitor,	None.			
	> Learn More					
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam	
	InfiniBand networks	English	16 hours	Contact us	N/A	
NVIDIA DGX						
NVIDIA DGX H100/A100 Administration: Private Workshop	This course provides an overview of DGX A100 system and NVIDIA DG tools for in-band and out-of-band NGC, the basics of running worklo management tools and command (CLI) commands. In addition, this content on Multi-Instance GPU (M storage, performance validation, a management tools and concepts.	X Station™ A100, management, ads, and specific -line interface course includes IIG), managing	professiona the configu	d network administ als that need to cor iration and perform d DGX Station A10	figure and verify ance of DGX A100	
	> Learn More					
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam	
	DGX A100 system and DGX Station A100	English	16 hours	Contact us	N/A	
NVIDIA DGX H100/A100 Administration: Public Workshop	This course provides an overview system and DGX Station A100's and out-of-band management, trunning workloads, specific manactures of the commands.	tools for in-band he basics of	professiona the configu	d network administ als that need to cor Iration and perform d DGX Station A10	figure and verify ance of DGX A100	
	> Learn More					
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam	
	DGX A100 system and DGX Station A100	English	16 hours	\$1,500	N/A	

Workshop Name	Description		Prerequisit	es	
NVIDIA DGX BasePOD™ Administration: Private Workshop	This course provides an overview of components and related processes the NVIDIA DGX A100 system, Infile Ethernet networks, tools for in-ball band management, NGC, the basic workloads, and specific management commands. It includes instructions vendor-specific storage per the arm specific DGX BasePOD solution.	s, including niBand and nd and out-of- cs of running ent tools and CLI s for managing	ing professionals that need to configure and the configuration and performance of clusters.  ning sand CLI naging		
	> Learn More				
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam
	DGX BasePOD cluster	English	16 hours	Contact us	N/A
NVIDIA DGX SuperPOD™ Administration: Private Workshop	This course is designed to help IT processfully administer all aspects SuperPOD cluster, including componetworking.  Learn More	of a DGX	professiona	network administrat Is that need to config ration and performan clusters.	jure and verify
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam
	DGX SuperPOD cluster	English	16 hours	Contact us	N/A
Virtualization					
NVIDIA AI Enterprise Administration: Public Bootcamp	This course covers the platform an overview, hardware and software a deployment options, licensing, tem GPU partitioning, scaling, compreh management, maintenance, monit troubleshooting.  > Learn More	rchitecture, nporal and spatial nensive validation,	System administrators and IT professionals that need to install, configure, manage, monitor, and troubleshoot the configuration and performance of their NVIDIA AI Enterprise solution.		
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam
	NVIDIA AI Enterprise English		12 hours	\$1,500	N/A

## **Online, Self-Paced Courses for Administrators**

Course Name	Description	Prerequisites				
Al and Data Science						
Introduction to Al in the Data Center	Explore an introduction to AI, GPU computing, NVIDIA AI software architecture, and how to implement and scale AI workloads in the data center.		None			
	> Learn More					
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam	
	N/A	English	4 hours	\$49	Available	
NVIDIA AI Enterprise Administration	This course covers the platform and solution overview, hardware and software architecture, deployment options, licensing, temporal and spatial GPU partitioning, scaling, comprehensive validation, management, maintenance, monitoring, and troubleshooting.		To gain the most value from this course, the target audience should have a working knowledge in the following domains:  > Data Center Infrastructure: Servers, Storage, Networking, GPUs, Operating Systems.  > Virtualization: VMware vSphere.			
			> Containerization: Docker.			
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam	
	NVIDIA AI Enterprise	English	8 hours	\$99	N/A	
Cluster Administra	tion					
NVIDIA Base Command™ Manager	This course is based on NVIDIA Ba Manager and gives an overview of management tools, Bright View a		None.			
	management shell (CMSH).	nd cluster				
		nd cluster				
	management shell (CMSH).	nd cluster  Languages	Duration	Price	Certification Exam	
	management shell (CMSH).  > Learn More		<b>Duration</b> 5 hours	<b>Price</b> Free		
Base Command Manager Autoscaling Hybrid Cloud	management shell (CMSH).  > Learn More  Tools, Libraries, Frameworks	English ase Command f extending the as a service and			Exam	
Manager Autoscaling	management shell (CMSH).  > Learn More  Tools, Libraries, Frameworks  Base Command Manager  This course is based on NVIDIA Bathanager and gives an overview of cluster to the cloud with Cluster as	English ase Command f extending the as a service and	5 hours		Exam	
Manager Autoscaling	management shell (CMSH).  > Learn More  Tools, Libraries, Frameworks  Base Command Manager  This course is based on NVIDIA Bathanager and gives an overview of cluster to the cloud with Cluster at cluster extension (i.e., hybrid cloud).	English ase Command f extending the as a service and	5 hours		Exam	

Course Name	Description		Prerequisites			
Introduction to Base Command Manager	This course is based on NVIDIA Ba Manager and gives an overview of components of the software.  > Learn More		None			
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam	
	NVIDIA Base Command Manager	English	3 hours	Free	N/A	
DGX						
NVIDIA DGX Cloud	This course is based on NVIDIA DO NVIDIA Base Command Platform. manage users and teams, run sing jobs, and manage data.	None				
	> Learn More					
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam	
	DGX Base Command Manage	English	1 hour	Free	N/A	
Ethernet						
Linux Networking Fundamentals	Learn the fundamental concepts a behind Linux-based open network		None			
	> Learn More					
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam	
	Linux networking concepts	English	6 hours	\$99	N/A	
Network Administration With	This course provides the required set of skills to configure and manage NVIDIA Ethernet switch		> Basic understanding of Ethernet network principles.			
the NVIDIA Onyx™ Switch System	systems. You'll learn in depth layer 2 configurations such as VLAN, STP, LAG, and MLAG, as well as how to configure layer 3 features such as BGP.			derstanding of switc concepts.	hing and	
	> Learn More					
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam	
	NVIDIA Onyx	English	3 hours	\$99	N/A	

Course Name	Description		Prerequisites			
RDMA Over Converged Ethernet (RoCE) From A to Z	In this course, you'll learn what RoCE is, how it works, the different network types RoCE can run over, and how to configure RoCE for each network type.  Basic understanding of networking the Open Systems Interconnection (					
	> Learn More					
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam	
	RoCE	English	2 hours	Free	N/A	
Graphics and Simula	ation					
NVIDIA Omniverse Enterprise Administration	The course covers the solution ov and software architecture, deploy installation, configuration, licensin comprehensive validation, securit maintenance, monitoring, and tro instruction and guidance are base best practices and cover the critic skills for deploying, administering your Omniverse solution.	None				
	> Learn More					
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam	
	Omniverse	English	6.5 hours	\$99	N/A	
InfiniBand						
InfiniBand Essentials	This self-paced course covers the steps into the world of InfiniBand to become more familiar with Infi uses, architecture layers, and mar concepts, this is the best place to	l. If you're looking niBand's benefits, nagement	General un and princip	•	etworking concepts	
	> Learn More					
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam	
	InfiniBand	English	1.5 hours	Free	N/A	
InfiniBand Professional	This course covers the fundamen InfiniBand technology from a usa view and builds on the details of tarchitecture specification. You'll le configure, manage, troubleshoot, InfiniBand network.	bility point of the InfiniBand earn how to install,	General und and princip	_	tworking concepts	
	> Learn More					
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam	

Workshop Name	Description		Prerequisites				
Management							
Data Center Management Made Easy With NVIDIA UFM®	Learn about NVIDIA Unified Fabric Manager (UFM) and its capabilities, advantages, and components through a set of interactive learning units, videos, and simulators.		Understanding of InfiniBand fabrics and management concepts				
	> Learn More						
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam		
	N/A	English	3 hours	\$49	N/A		
NVIDIA License System	NVIDIA License System (NLS) is a solution to support the continued NVIDIA enterprise software portfo	l expansion of the	installat	> Basic understanding of virtual appliances installation and setup.			
	will help you to learn about NLS and how you can move from your existing licensing solution to NLS.  > Learn More		<ul> <li>Familiarity with web/cloud-based applications.</li> </ul>				
			<ul> <li>Familiarity with NVIDIA products like virtual GPU (vGPU) and NVIDIA AI Enterprise.</li> </ul>				
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam		
	Cloud License Service (CLS) and Delegated License Service (DLS)	English	2 hours	Free	N/A		
Network							
Ansible Essentials for Network Engineers	In this course, you'll explore a vari- modules and write playbooks spec- to modern data centers. This cour- exclusive hands-on lab environme to practice real-world scenarios in environments.	cifically adapted rse includes an ent and exercises	> General	nux administratior understanding of s and principles.			
	> Learn More						
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam		
	Ansible	English	3 hours	\$49	N/A		
Introduction to Networking	In this course, we'll cover the basi technology and understand how on an Ethernet network.		None				
	> Learn More						
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam		
	N/A	English	1 hour	Free	N/A		

Workshop Name	Description		Prerequisite	<b>2</b> 5		
MLXlink and MLXcables Debug Tools	In this course, you'll learn about the MLXlink and MLXcables debug tools. These debug tools are used for both basic link troubleshooting and for analyzing the more complex link characteristics.		Good technical background and understanding of networking hardware.			
	> Learn More					
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam	
	MLXLink and MLXcables	English	2 hours	Free	N/A	
NVIDIA BlueField® DPU Administration	Learn the basic concepts of BlueField DPUs as a platform for accelerated data center computing.		<ul> <li>Basic knowledge and experience in networking concepts and principle.</li> </ul>			
	> Learn More		> Basic knowledge and experience in Linux administration.			
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam	
	N/A	English	3 hours	\$49	N/A	
RDMA						
The Fundamentals of RDMA Programming	This course allows C programmers to the RDMA programming world with previous experience in networking comprogramming. We've also added tips well as do's and don'ts, so the skills truly serve you when you need them  > Learn More	out requiring or RDMA s and tricks, as you acquire will	Understand	ing of C/C++ program	ming.	
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam	
	RDMA, C/C++	English	4 hours	\$49	N/A	

#### Certifications

Certification Name	Description		Prerequisites				
NVIDIA-Certified Associate: Al in the Data Center	This is an entry-level certification that validates foundational concepts of adopting artificial intelligence computing by NVIDIA in a data center environment. The exam is online and remote proctored with 50 questions and a time limit of 60 minutes for completion.		A basic understanding of data center infrastructure.				
	> Learn More						
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam		
	N/A	English	1 hour	\$135	Available		
NVIDIA-Certified Associate: Generative Al Large Language Models	An entry-level credential that valid foundational concepts for develop maintaining Al-driven applications Al and large language models (LLM solutions. The exam is online and p includes 50 questions, and has a 60	A basic understanding of generative AI and large language models					
	> Learn More						
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam		
	N/A	English	1 hour	\$135	Available		
NVIDIA-Certified Associate: Generative Al Multimodal	An entry-level credential that valid foundational skills needed to design manage AI systems that synthesiz data across text, image, and audic exam is online and proctored removes the company of the com	gn, implement, and ze and interpret o modalities. The otely, includes 50	A basic und	erstanding of ge	enerative Al		
	> Learn More						
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam		
	N/A	English	1 hour	\$135	Available		
NVIDIA-Certified Professional: InfiniBand	This is an intermediate level certivalidates core concepts for desigand managing NVIDIA InfiniBand is online and remote proctored wand a time limit of 90 minutes for	ning, deploying, fabrics. The exam ith 40 questions	_	understanding c ire and networkii			
	> Learn More						
	Tools, Libraries, Frameworks	Languages	Duration	Price	Certification Exam		
	NVIDIA InfiniBand fabrics	English	1.5 hours	\$220	Available		

#### Ready to Get Started?

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For questions, contact us.

