Learning Paths for Developers and Administrators

February 2024

Learning Paths by Role and Topic

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Simulation, Data Modeling, and Design	

To develop a customized training plan for your organization, connect with one of our **training advisors**.

*View the full catalog of courses here. For questions, contact us at **nvdli@nvidia.com**. These paths are suggestions and might be modified based on skill levels and desired outcomes.*

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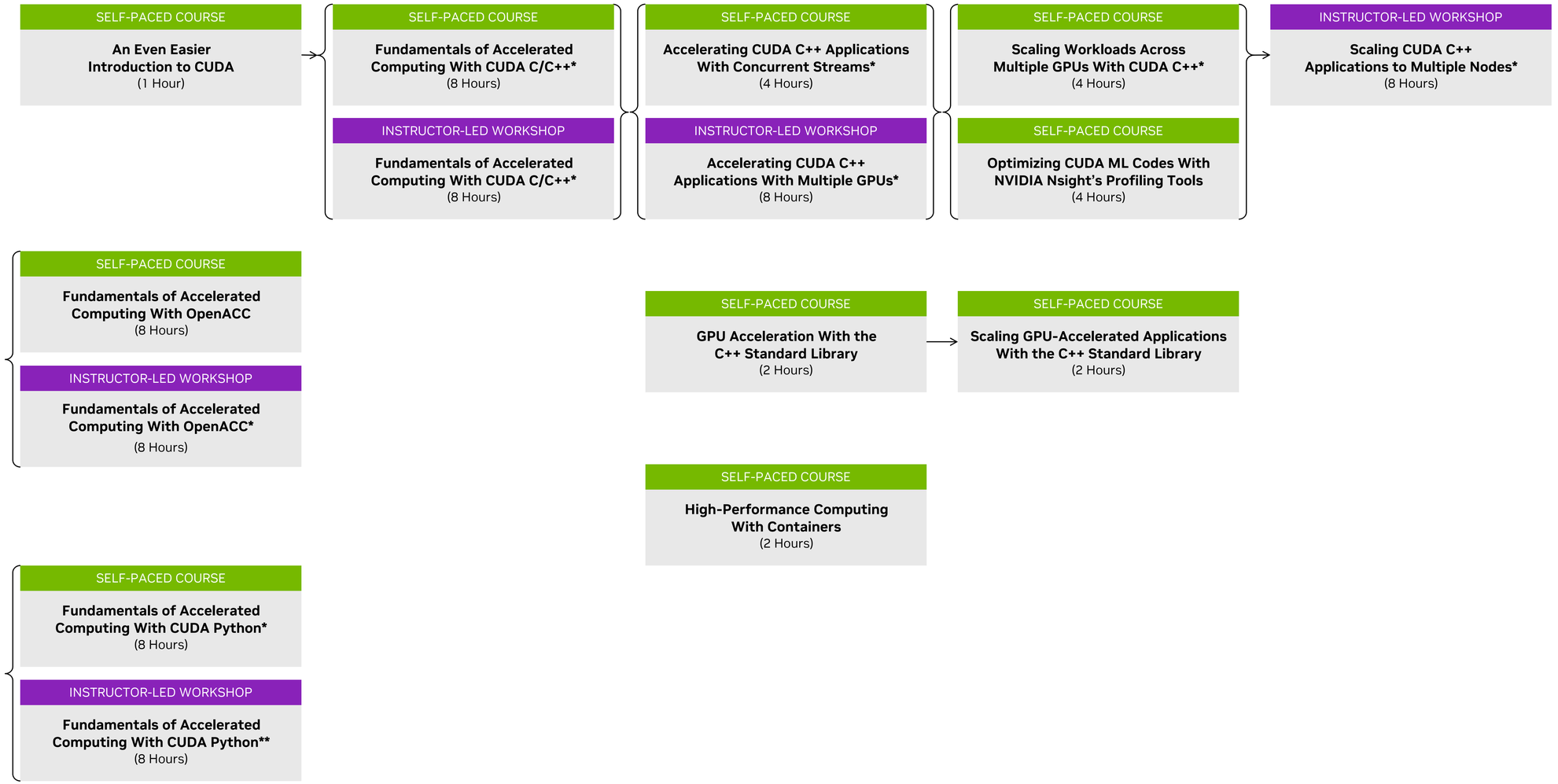
Accelerated Computing Training

For Developers



COURSE LEGEND

* NVIDIA Certificate of Competency

** Digital Badge Available

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Accelerated Computing Training

For Administrators

Overview

SELF-PACED COURSE

Introduction to AI in the Data Center
(4 Hours)

→

CERTIFICATION

Introduction to AI in the Data Center Certification**
(1 Hour)

SELF-PACED COURSE

Data Center Management Made Easy With NVIDIA UFM
(3 Hours)

NVIDIA AI Enterprise Choose the courses that best match your learning needs.

SELF-PACED COURSE

NVIDIA AI Enterprise Administrator
(8 Hours)

INSTRUCTOR-LED WORKSHOP

NVIDIA AI Enterprise Administrator: Public Training
(12 Hours)

INSTRUCTOR-LED WORKSHOP

NVIDIA AI Enterprise Administrator: Private Customized Training
(12 Hours)

NVIDIA Base Command Manager Choose the courses that best match your learning needs.

SELF-PACED COURSE

Introduction to NVIDIA Base Command Manager
(3 Hours)

→

SELF-PACED COURSE

NVIDIA Base Command Manager Administration
(5 Hours)

→

SELF-PACED COURSE

NVIDIA Base Command Manager Auto-Scaling Hybrid Cloud
(3 Hours)

INSTRUCTOR-LED WORKSHOP

NVIDIA Base Command Manager: Private Custom Training
(12 Hours)

NVIDIA DGX Choose the courses that best match your learning needs.

INSTRUCTOR-LED WORKSHOP

NVIDIA DGX H100/A100 Administration: Public Workshop
(12 Hours)

INSTRUCTOR-LED WORKSHOP

NVIDIA DGX H100/A100 Administration: Private Workshop
(12 Hours)

INSTRUCTOR-LED WORKSHOP

NVIDIA DGX BasePOD Administration: Private Workshop
(12 Hours)

INSTRUCTOR-LED WORKSHOP

NVIDIA DGX SuperPOD Administration: Private Workshop
(12 Hours)

SELF-PACED COURSE

NVIDIA DGX Cloud
(1 Hour)

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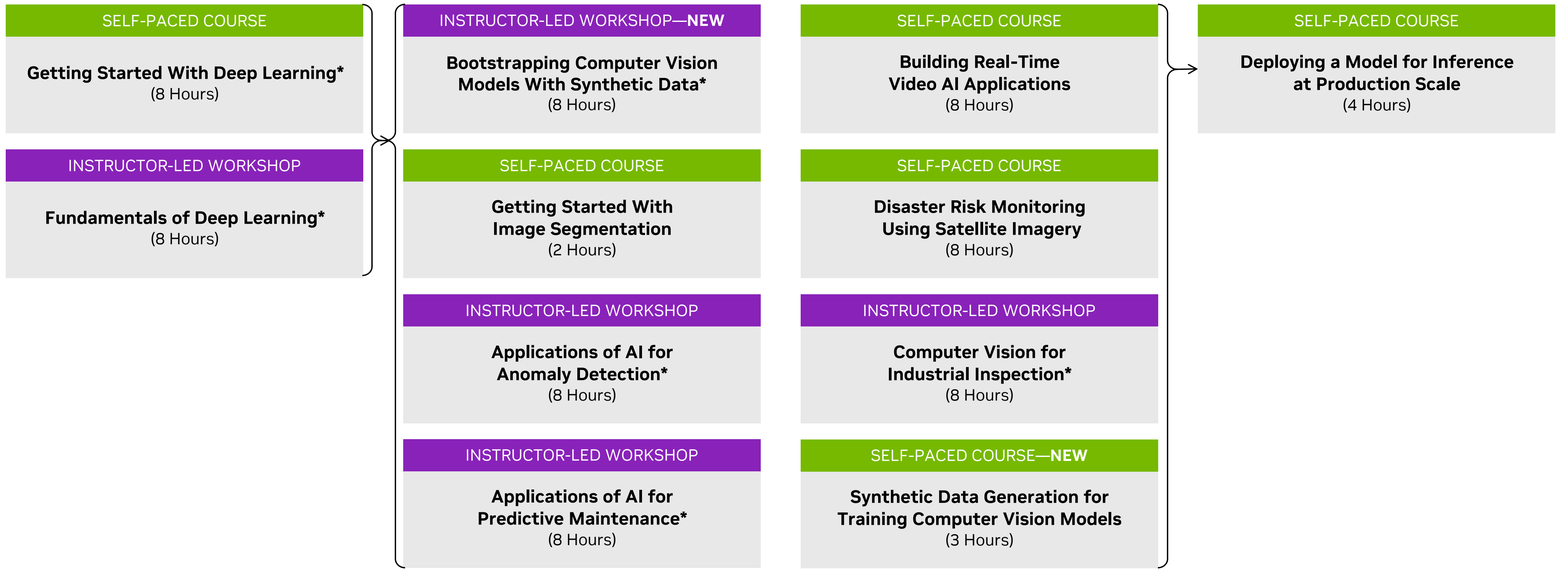
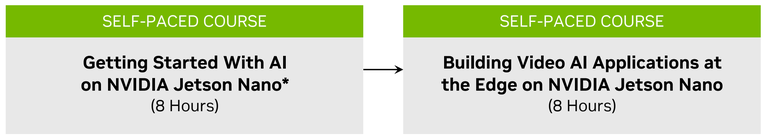
Computer Vision and Video Analytics Training

For Developers





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Cybersecurity and Fraud Detection Training

For Developers

SELF-PACED COURSE

Digital Fingerprinting With NVIDIA Morpheus
(1 Hour)

→

INSTRUCTOR-LED WORKSHOP

Building AI-Based Cybersecurity Pipelines
(8 Hours)

INSTRUCTOR-LED WORKSHOP

Building Deep Learning-Based Anti-Fraud Applications
(Chinese Only) (8 Hours)

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Data Center Overview Training

For Administrators

Platform Overview Choose the courses that best match your learning needs.

SELF-PACED COURSE	SELF-PACED COURSE	INSTRUCTOR-LED WORKSHOP	INSTRUCTOR-LED WORKSHOP	SELF-PACED COURSE	SELF-PACED COURSE
Introduction to AI in the Data Center (4 Hours)	**NVIDIA AI Enterprise Administrator** (8 Hours)	**NVIDIA AI Enterprise Administrator: Private Customized Training** (12 Hours)	**NVIDIA AI Enterprise Administrator: Public Training** (12 Hours)	**Introduction to NVIDIA Base Command Manager** (3 Hours)	**NVIDIA License System** (2 Hours)

SELF-PACED COURSE	SELF-PACED COURSE
Data Center Management Made Easy With NVIDIA UFM (3 Hours)	**NVIDIA Omniverse Administration** (6.5 Hours)

Compute Choose the courses that best match your learning needs.

INSTRUCTOR-LED WORKSHOP	INSTRUCTOR-LED WORKSHOP	INSTRUCTOR-LED WORKSHOP	INSTRUCTOR-LED WORKSHOP	SELF-PACED COURSE
NVIDIA DGX BasePOD Administration: Private Workshop (12 Hours)	**NVIDIA DGX SuperPOD Administration: Private Workshop** (12 Hours)	**NVIDIA DGX H100 / A100 Administration: Public Workshop** (12 Hours)	**NVIDIA DGX H100 / A100 Administration: Private Workshop** (12 Hours)	**NVIDIA DGX Cloud Administration** (1 Hour)

Networking Choose the courses that best match your learning needs.

SELF-PACED COURSE	SELF-PACED COURSE	SELF-PACED COURSE
Introduction to Networking (1 Hour)	**NVIDIA BlueField DPU Administration** (3 Hours)	**InfiniBand Essentials** (1.5 Hours)

Networking Software Choose the courses that best match your learning needs.

SELF-PACED COURSE	SELF-PACED COURSE	SELF-PACED COURSE	SELF-PACED COURSE	SELF-PACED COURSE
Introduction to NVIDIA DOCA for DPUs (2 Hours)	**Network Administration With NVIDIA Onyx Switch System** (3 Hours)	**Linux Networking Fundamentals** (6 Hours)	**Fundamentals of RDMA Programming** (4 Hours)	**Ansible Essentials for Network Engineers** (3 Hours)

COURSE LEGEND

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Data Center and Cloud Training

For Administrators

Overview

SELF-PACED COURSE

Introduction to AI in the Data Center
(4 Hours)

→

CERTIFICATION

Introduction to AI in the Data Center Certification**
(1 Hour)

SELF-PACED COURSE

Data Center Management Made Easy With NVIDIA UFM
(3 Hours)

DPU and DOCA

SELF-PACED COURSE

NVIDIA BlueField DPU Administration
(3 Hours)

→

SELF-PACED COURSE

Introduction to NVIDIA DOCA for DPUs
(2 Hours)

→

SELF-PACED COURSE

Getting Started With NVIDIA DOCA Flow
(2 Hours)

NVIDIA AI Enterprise Choose the courses that best match your learning needs.

INSTRUCTOR-LED WORKSHOP

NVIDIA AI Enterprise Administrator: Public Training
(12 Hours)

INSTRUCTOR-LED WORKSHOP

NVIDIA AI Enterprise Administrator: Private Customized Training
(12 Hours)

SELF-PACED COURSE

NVIDIA AI Enterprise Administrator
(8 Hours)

Cluster Administration

SELF-PACED COURSE

Introduction to NVIDIA Base Command Manager
(3 Hours)

→

SELF-PACED COURSE

NVIDIA Base Command Manager Administration
(5 Hours)

→

SELF-PACED COURSE

NVIDIA Base Command Manager Auto-Scaling Hybrid Cloud
(3 Hours)

NVIDIA DGX Choose the courses that best match your learning needs.

INSTRUCTOR-LED WORKSHOP

NVIDIA DGX H100/A100 Administration: Public Workshop
(12 Hours)

INSTRUCTOR-LED WORKSHOP

NVIDIA DGX H100/A100 Administration: Private Workshop
(12 Hours)

INSTRUCTOR-LED WORKSHOP

NVIDIA DGX BasePOD Administration: Private Workshop
(12 Hours)

INSTRUCTOR-LED WORKSHOP

NVIDIA DGX SuperPOD Administration: Private Workshop
(12 Hours)

SELF-PACED COURSE

NVIDIA DGX Cloud Administration
(1 Hour)

COURSE LEGEND

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Data Science Training

For Developers

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Deep Learning Training

For Developers

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Edge Computing Training

For Developers

SELF-PACED COURSE

Getting Started With AI on NVIDIA Jetson Nano*
(8 Hours)

→

SELF-PACED COURSE

Building Video AI Applications at the Edge on NVIDIA Jetson Nano*
(8 Hours)

SELF-PACED COURSE

Integrating Sensors With NVIDIA DRIVE
(2 Hours)

SELF-PACED COURSE

Optimized Vehicle Routing
(1 Hour)

SELF-PACED COURSE

Introduction to Robotic Simulations in NVIDIA Isaac Sim
(4 Hours)

→

SELF-PACED COURSE

Assemble a Simple Robot in NVIDIA Issac Sim
(30 Minutes)

COURSE LEGEND

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Generative AI and Large Language Model Training

For Developers

Foundational

SELF-PACED COURSE—**NEW**

Generative AI Explained
(2 Hours)

SELF-PACED COURSE

Getting Started With Deep Learning*
(8 Hours)

INSTRUCTOR-LED WORKSHOP

Fundamentals of Deep Learning*
(8 Hours)

Application Specific

SELF-PACED COURSE

Introduction to Transformer-Based Natural Language Processing*
(6 Hours)

SELF-PACED COURSE

Get Started With Highly Accurate Custom ASR for Speech AI
(3 Hours)

INSTRUCTOR-LED WORKSHOP

Building Conversational AI Applications*
(8 Hours)

INSTRUCTOR-LED WORKSHOP

Building Transformer-Based Natural Language Processing Applications*
(8 Hours)

Gen AI and LLM

SELF-PACED COURSE

Prompt Engineering With LLaMA-2
(3 Hours)

SELF-PACED COURSE—**NEW**

Generative AI With Diffusion Models*
(8 Hours)

INSTRUCTOR-LED WORKSHOP

Generative AI With Diffusion Models*
(8 Hours)

INSTRUCTOR-LED WORKSHOP—**NEW**

Rapid Application Development Using LLMs*
(8 Hours)

SELF-PACED COURSE—**NEW**

Augmenting Your LLM Using Retrieval-Augmented Generation
(1 Hour)

SELF-PACED COURSE—**NEW**

Building RAG Agents With LLMs*
(8 Hours)

INSTRUCTOR-LED WORKSHOP—**NEW**

Building RAG Agents With LLMs*
(8 Hours)

INSTRUCTOR-LED WORKSHOP—**NEW**

Efficient Large Language Model (LLM) Customizations*
(8 Hours)

Scaled Production

SELF-PACED COURSE

Deploying a Model for Inference at Production Scale
(4 Hours)

INSTRUCTOR-LED WORKSHOP

Data Parallelism: How to Train Deep Learning Models on Multiple GPUs*
(8 Hours)

INSTRUCTOR-LED WORKSHOP

Model Parallelism: Building and Deploying Large Neural Networks*
(8 Hours)

COURSE LEGEND

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Recommended Training for Gen AI LLM Certification

Foundational

SELF-PACED COURSE—**NEW**

Generative AI Explained
(2 Hours)

SELF-PACED COURSE

Getting Started With Deep Learning*
(8 Hours)

INSTRUCTOR-LED WORKSHOP

Fundamentals of Deep Learning*
(8 Hours)

INSTRUCTOR-LED WORKSHOP

Fundamentals of Accelerated Data Science*
(8 Hours)

Application Specific

SELF-PACED COURSE

Introduction to Transformer-Based Natural Language Processing*
(6 Hours)

INSTRUCTOR-LED WORKSHOP

Building Transformer-Based Natural Language Processing Applications*
(8 Hours)

INSTRUCTOR-LED WORKSHOP—**NEW**

Bootstrapping Computer Vision Models With Synthetic Data*
(8 Hours)

Gen AI and LLM

SELF-PACED COURSE

Prompt Engineering With LLaMA-2
(3 Hours)

SELF-PACED COURSE—**NEW**

Augmenting Your LLM Using Retrieval Augmented Generation
(1 Hour)

SELF-PACED COURSE—**NEW**

Building RAG Agents with LLMs*
(8 Hours)

INSTRUCTOR-LED WORKSHOP—**NEW**

Building RAG Agents with LLMs*
(8 Hours)

INSTRUCTOR-LED WORKSHOP—**NEW**

Rapid Application Development Using LLMs*
(8 Hours)

INSTRUCTOR-LED WORKSHOP—**NEW**

Efficient Large Language Model (LLM) Customizations*
(8 Hours)

Certification

CERTIFICATION

Generative AI Large Language Models
(1 Hour Exam)
Link coming soon

Additional resources to prepare for the exam:

- Getting Started with Large Language Models for Enterprise Solutions (blog, 20 minutes)
- The Fast Path to Developing With LLMs (Video on demand, 50 minutes)
- Running Your Own LLM (Video on demand, 40 minutes)
- What Is Retrieval-Augmented Generation aka RAG? (Blog, 15 minutes)
- Trustworthy AI (Webpage)

COURSE LEGEND

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Recommended Training for Gen AI Multimodal Certification

Foundational

SELF-PACED COURSE—**NEW**

Generative AI Explained
(2 Hours)

SELF-PACED COURSE

Getting Started With Deep Learning*
(8 Hours)

INSTRUCTOR-LED WORKSHOP

Fundamentals of Deep Learning*
(8 Hours)

INSTRUCTOR-LED WORKSHOP

Fundamentals of Accelerated Data Science*
(8 Hours)

Application Specific

SELF-PACED COURSE

Get Started With Highly Accurate Custom ASR for Speech AI
(3 Hours)

INSTRUCTOR-LED WORKSHOP

Building Conversational AI Applications*
(8 Hours)

INSTRUCTOR-LED WORKSHOP

Computer Vision for Industrial Inspection*
(8 Hours)

INSTRUCTOR-LED WORKSHOP

Applications of AI for Anomaly Detection*
(8 Hours)

INSTRUCTOR-LED WORKSHOP

Applications of AI for Predictive Maintenance*
(8 Hours)

Gen AI and LLM

SELF-PACED COURSE

Prompt Engineering With LLaMA-2
(3 Hours)

SELF-PACED COURSE

Introduction to Transformer-Based Natural Language Processing*
(6 Hours)

SELF-PACED COURSE—**NEW**

Generative AI With Diffusion Models*
(8 Hours)

INSTRUCTOR-LED WORKSHOP—**NEW**

Generative AI With Diffusion Models*
(8 Hours)

INSTRUCTOR-LED WORKSHOP—**NEW**

Rapid Application Development Using LLMs*
(8 Hours)

Scaled Production

SELF-PACED COURSE

Deploying a Model for Inference at Production Scale
(4 Hours)

INSTRUCTOR-LED WORKSHOP—**NEW**

Efficient Large Language Model (LLM) Customizations*
(8 Hours)

Certification

CERTIFICATION

Generative AI Large Language Models
(1 Hour Exam)
Link coming soon

Additional resources to prepare for the exam:

- High-Resolution Image Synthesis via Two-Stage Generative Models (Video on demand, 35 minutes)
- Accelerated Creative AI –Using NVIDIA-optimized image generation for Media and Entertainment (Webinar on demand, 1 hour)
- Building Lifelike Digital Avatars with NVIDIA ACE Microservices (Blog,15 minutes)
- The Future of Generative AI for Content Creation (Video on demand, 35 minutes)

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Infrastructure for Generative AI and Large Language Models Training

For Administrators

Overview

SELF-PACED COURSE

Introduction to AI in the Data Center
(4 Hours)

→

CERTIFICATION

Introduction to AI in the Data Center Certification**
(1 Hour)

NVIDIA AI Enterprise

SELF-PACED COURSE

NVIDIA AI Enterprise Administrator
(8 Hours)

INSTRUCTOR-LED WORKSHOP

NVIDIA AI Enterprise Administrator: Public Training
(12 Hours)

INSTRUCTOR-LED WORKSHOP

NVIDIA AI Enterprise Administrator: Private Customized Training
(12 Hours)

SELF-PACED COURSE

NVIDIA NeMo Framework
(8 Hours)

SELF-PACED COURSE

RAPIDS Accelerator for Apache Spark
(2 Hours)

NVIDIA DGX

INSTRUCTOR-LED WORKSHOP

NVIDIA DGX H100/A100 Administration: Public Workshop
(12 Hours)

INSTRUCTOR-LED WORKSHOP

NVIDIA DGX H100/A100 Administration: Private Workshop
(12 Hours)

INSTRUCTOR-LED WORKSHOP

NVIDIA DGX BasePOD Administration: Private Workshop
(12 Hours)

INSTRUCTOR-LED WORKSHOP

NVIDIA DGX SuperPOD Administration: Private Workshop
(12 Hours)

SELF-PACED COURSE

NVIDIA DGX Cloud Administration
(1 Hour)

Introduction to Networking

SELF-PACED COURSE

Introduction to Networking
(1 Hour)

SELF-PACED COURSE

InfiniBand Essentials
(1.5 Hours)

Additional Recommended Training

SELF-PACED COURSE

Introduction to NVIDIA Base Command Manager
(3 Hours)

SELF-PACED COURSE

Data Center Management Made Easy With NVIDIA UFM
(3 Hours)

SELF-PACED COURSE

Introduction to NVIDIA DOCA for DPUs
(2 Hours)

SELF-PACED COURSE

Getting Started With NVIDIA DOCA Flow
(2 Hours)

COURSE LEGEND

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Industry-Related Training

For Developers

Energy

INSTRUCTOR-LED WORKSHOP

Computer Vision for Industrial Inspection*
(8 Hours)

INSTRUCTOR-LED WORKSHOP

Applications of AI for Predictive Maintenance*
(8 Hours)

Financial Services

SELF-PACED COURSE

Digital Fingerprinting With NVIDIA Morpheus
(1 Hour)

→

INSTRUCTOR-LED WORKSHOP

Building AI-Based Cybersecurity Pipelines
(8 Hours)

INSTRUCTOR-LED WORKSHOP

Applications of AI for Anomaly Detection*
(8 Hours)

INSTRUCTOR-LED WORKSHOP

Building Intelligent Recommender Systems*
(8 Hours)

Manufacturing

INSTRUCTOR-LED WORKSHOP

Computer Vision for Industrial Inspection*
(8 Hours)

INSTRUCTOR-LED WORKSHOP

Applications of AI for Predictive Maintenance*
(8 Hours)

Transportation

SELF-PACED COURSE

Integrating Sensors With NVIDIA DRIVE
(2 Hours)

Healthcare and Life Sciences

SELF-PACED COURSE

Getting Started With Deep Learning*
(8 Hours)

→

INSTRUCTOR-LED WORKSHOP

Data Parallelism: How to Train Deep Learning Models on Multiple GPUs*
(8 Hours)

→

INSTRUCTOR-LED WORKSHOP

Model Parallelism: Building and Deploying Large Neural Networks*
(8 Hours)

INSTRUCTOR-LED WORKSHOP

Fundamentals of Deep Learning*
(8 Hours)

COURSE LEGEND

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Networking Training

For Administrators

Overview

SELF-PACED COURSE

Introduction to Networking
(1 Hour)

NVIDIA Cumulus

SELF-PACED COURSE

Linux Networking Fundamentals
(6 Hours)

INSTRUCTOR-LED WORKSHOP

NVIDIA Cumulus Linux:
Public Boot Camp
(12 Hours)

INSTRUCTOR-LED WORKSHOP

NVIDIA Cumulus Linux:
Private Customized Workshop
(20 Hours)

Other

SELF-PACED COURSE

Network Administration With
NVIDIA Onyx Switch System
(3 Hours)

SELF-PACED COURSE

RDMA Over Converged
Ethernet From A to Z
(10 Hours)

InfiniBand

SELF-PACED COURSE

InfiniBand Essentials
(1.5 Hours)

SELF-PACED COURSE

InfiniBand Professional
(6 Hours)

CERTIFICATION

InfiniBand Professional Certification**
(2 Hours)

INSTRUCTOR-LED WORKSHOP

InfiniBand Customized Course
(6 Hours)

SELF-PACED COURSE

Fundamentals of
RDMA Programming
(4 Hours)

COURSE LEGEND

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Simulation, Data Modeling, and Design Training

For Developers and Administrators

Extensions

SELF-PACED COURSE—**NEW**

Essentials of Developing NVIDIA Omniverse Kit Applications
(2 Hours)

SELF-PACED COURSE

Develop, Customize, and Publish in NVIDIA Omniverse With Extensions
(8 Hours)

SELF-PACED COURSE

Build Beautiful, Custom UI for 3D Tools on NVIDIA Omniverse
(90 Minutes)

SELF-PACED COURSE

Easily Develop Advanced 3D Layout Tools on NVIDIA Omniverse
(90 Minutes)

SELF-PACED COURSE

How to Build Custom 3D Scene Manipulator Tools on NVIDIA Omniverse
(90 Minutes)

Generative AI

SELF-PACED COURSE—**NEW**

Generative AI Explained
(2 Hours)

NVIDIA Omniverse Administrators

SELF-PACED COURSE

NVIDIA Omniverse Enterprise Administration
(6.5 Hours)

Simulation and Synthetic Data

SELF-PACED COURSE

Introduction to Robotic Simulations in NVIDIA Isaac Sim
(4 Hours)

SELF-PACED COURSE

Assemble a Simple Robot in NVIDIA Issac Sim
(30 Minutes)

INSTRUCTOR-LED WORKSHOP—**NEW**

Bootstrapping Computer Vision Models With Synthetic Data*
(8 Hours)

SELF-PACED COURSE—**NEW**

Synthetic Tabular Data Generation Using Transformers
(4 Hours)

INSTRUCTOR-LED WORKSHOP

Building Digital Avatar Pipelines With NVIDIA Omniverse Audio2Face and Riva*
(Chinese) (8 Hours)

OpenUSD

SELF-PACED COURSE

Getting Started With USD for Collaborative 3D Workflows
(4 Hours)

SELF-PACED COURSE

Essentials of USD in NVIDIA Omniverse
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