NVIDIA Training and Certification Learning Paths

October 2026

Quick Links

	Learning Paths to Certification	Learning Paths By Topic
For Developers	Associate AI Models and Application Development Associate Generative AI LLM Associate Generative AI Multimodal Associate Accelerated Data Science Professional Generative AI LLM Professional Agentic AI Professional Accelerated Data Science Professional OpenUSD Development	Accelerated Computing Agentic AI Computer Vision and Video Analytics Generative AI and Large Language Models (LLMs) Industrial Digital Twin Training OpenUSD Robotics Physical AI
For Infrastructure Professionals	Associate AI Infrastructure and Operations Professional AI Infrastructure Professional AI Operations Professional AI Networking	AI Infrastructure & Operations AI Networking NCP HGX 8-Way Administration NCP GB200/300 Administration

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 **here**.*

NVIDIA.

NVIDIA Certification Framework

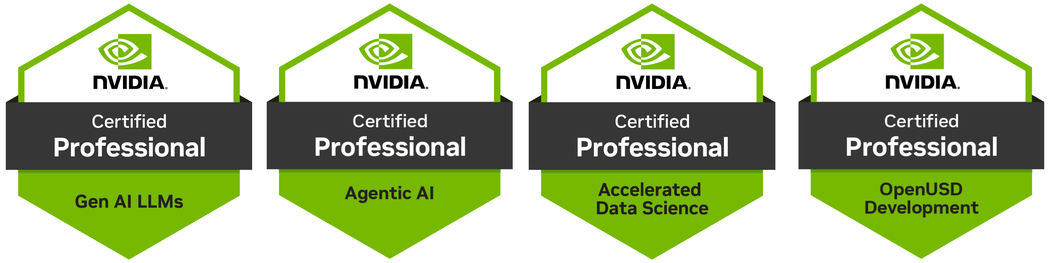
AI Applications and Workloads

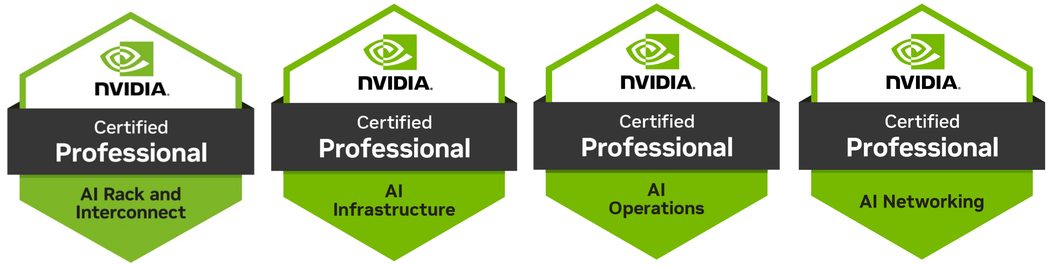
Based on Application Requirements for Accelerated Computing, AI, and Related Workloads
Designed for Developer Roles

AI Infrastructure

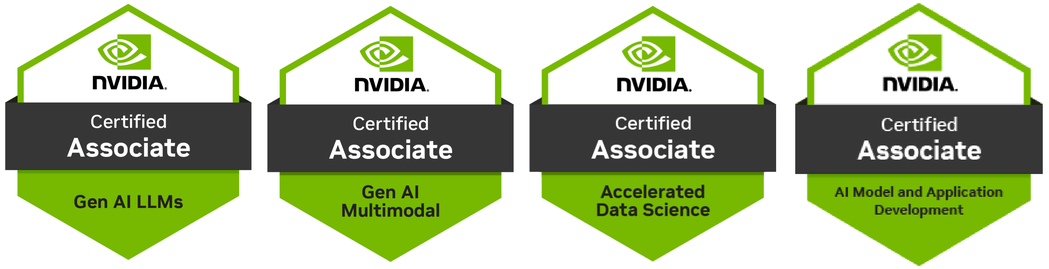
Based on NVIDIA HW & SW Solutions
Designed for Infrastructure and Operations Roles

Professional





Associate



Learn more about NVIDIA certification here

Training and Certification for Developers

Agentic AI Certification

For developers

NVIDIA Certified Professional Agentic AI

Professional Certification

Fundamentals

- **Building RAG Agents with LLMs***
  - **8 hours | $90**
  - 8 Hours | $500

Generative AI and Multimodal

- **Evaluating RAG and Semantic Search Systems**
  - 3 Hours | $30
- **Building Agentic AI Applications with LLMs***
  - 8 Hours | $90
  - **8 Hours | $500**
- **Adding New Knowledge to LLMs**
  - 8 Hours | $90
  - **8 Hours | $500**
- **Introduction to Deploying RAG Pipelines for Production at Scale***
  - 4 Hours | $90

Certification

- **NVIDIA Certified Professional Agentic AI****
  - **2 Hours | $200**

COURSE LEGEND

* NVIDIA Certificate of Competency
** Digital Badge Available
NVIDIA Self-paced Course
NVIDIA Instructor-Led Workshop
NVIDIA Certification Exam

AI Models and Application Development Certification

For developers

Associate Certification

Fundamentals

AI Models and Application Development Fundamentals

8 Hours | $500

→

Certification

NVIDIA Certified Associate AI Models and Application Development**

1 Hour | $120

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NVIDIA Self-paced Course

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Gen AI LLM Certifications

For developers

Link to Gen AI Learning Path Webpage

Associate Certification

Fundamentals

- What is Trustworthy AI? — Blog
- → Fundamentals of Deep Learning* — 8 Hours | $90

Generative AI and LLMs

- Rapid Application Development with Large Language Models* — 8 Hours | $90 / 8 Hours | $500

Certification

- NVIDIA-Certified Associate Generative AI Large Language Models** — 1 Hour | $125

Professional Certification

- Building RAG Agents with LLMs* — 8 Hours | $90 / 8 Hours | $500
- → Adding New Knowledge to LLMs — 8 Hours | $90 / 8 Hours | $500
- → Rapid Application Development with Large Language Models* — 8 Hours | $500
- → Deploying RAG Pipelines for Production at Scale* — 4 Hours | $90 / 8 Hours | $500
- → Building Agentic AI Applications with LLMs* — 8 Hours | $500
- → Optimizing CUDA ML Codes With NVIDIA Nsight's Profiling Tools — 4 Hours | $30

Certification

- NVIDIA-Certified Professional Generative AI Large Language Models** — 2 Hours | $200

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Article / Blog
Self-paced Course
Open Source Course
Instructor-Led Workshop
Certification Exam

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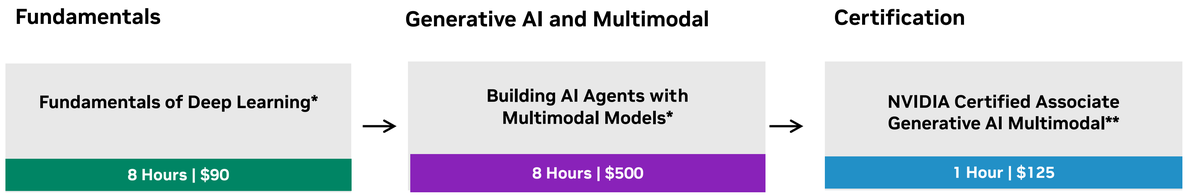
Gen AI Multimodal Certification

For developers

Link to Gen AI Learning Path Webpage

Associate Certification



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* NVIDIA Certificate of Competency

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- NVIDIA Self-paced Course
- NVIDIA Instructor-Led Workshop
- Open Source Course
- NVIDIA Certification Exam

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OpenUSD Certification

For developers and administrators

Link to OpenUSD Learning Path Webpage

Professional Certification

Fundamentals

Learn OpenUSD: Setting the Stage
60 Minutes | Free

→

Learn OpenUSD: Scene Description Blueprints
60 Minutes | Free

→

Learn OpenUSD: Composition Basics
60 Minutes | Free

→

Learn OpenUSD: Beyond the Basics
60 Minutes | Free

→

Applied Concepts

Learn OpenUSD: Creating Composition Arcs
3 Hours | Free

→

Learn OpenUSD: Asset Structure Principles and Content Aggregation
3 Hours | Free

→

Learn OpenUSD: Developing Data Exchange Pipelines
90 Minutes | Free

→

Learn OpenUSD: Asset Modularity and Instancing
2 Hours | Free

→

Certification

NVIDIA-Certified Professional OpenUSD Development**
2 Hours | $200

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** Digital Badge Available
Self-paced Course
Certification Exam

NVIDIA

Accelerated Computing Training

For developers

Foundational

Fundamentals of Accelerated Computing With Modern CUDA C/C++*

8 Hours | $90 | 8 Hours | $500

→

Fundamentals of Accelerated Computing With CUDA Python*

8 Hours | $90

Fundamentals of GPU-Accelerated Workflows with CUDA Python*

8 Hours | $500

Profiling

Optimizing CUDA ML Codes With NVIDIA Nsight's Profiling Tools

2 Hours | $30

→

Find the Bottleneck: Optimize AI Pipelines With Nsight Systems

3 Hours | $30

→

Nsight Analysis System: Build Custom Python Analysis Scripts

2 Hours | $30

Networking

Fundamentals of Accelerated Networking with NVIDIA DOCA

8 Hours | $500

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NVIDIA Self-paced Course

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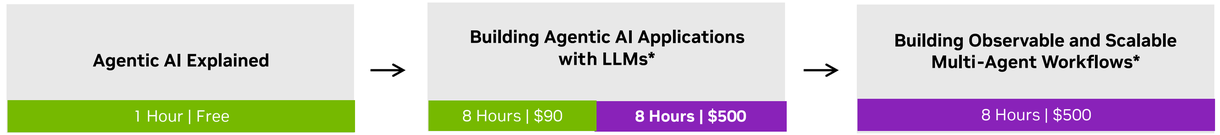
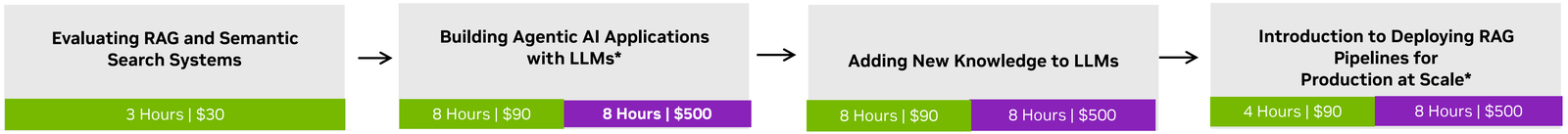
Agentic AI Training

For developers

Fundamentals



Generative AI and Multimodal



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NVIDIA Instructor-Led Workshop

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Generative AI and LLM Training

For developers

Link to Gen AI Learning Path Webpage

Foundational

- Agentic AI Explained — 1 Hour | Free
- → Fundamentals of Deep Learning* — 8 Hours | $90

Build Applications with LLMs

- Rapid Application Development with Large Language Models* — 8 Hours | $90 / 8 Hours | $500
- → Building AI Agents with Multimodal Models* — 8 Hours | $500

Retrieval Augmented Generation

- Building RAG Agents with LLMs* — 8 Hours | $90 / 8 Hours | $500
- → Evaluating RAG and Semantic Search Systems — 3 Hours | $30

Data Curation, Model Customization and Large-Scale Training

- Adding New Knowledge to LLMs — 8 Hours | $90 / 8 Hours | $500

Inference and Deployment

- Deploying and Optimizing AI Inference at Scale* — 8 Hours | $500
- → Deploying RAG Pipelines for Production at Scale* — 4 Hours | $90 / 8 Hours | $500

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- * NVIDIA Certificate of Competency
- NVIDIA Self-paced Course
- NVIDIA Instructor-Led Workshop
- Open Source Course

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Industrial Digital Twins Training

For developers

Link to Industrial Digital Twins Learning Path Webpage

Digital Twin Foundations

- What is a Digital Twin? — Article
- → Fundamentals of Working With OpenUSD — 2 Hours | Free
- → OpenUSD Foundations Learning Path — 11 Hours | Free

Getting Started with Omniverse Development

- An Introduction to Developing with NVIDIA Omniverse — 2 Hours | Free
- → Creating an Omniverse Extension with Python — 2 Hours | Free
- → Extending Omniverse Kit Applications for Building Digital Twins — 2 Hours | Free
- → Assembling Digital Twins With Omniverse and OpenUSD — 1.5 Hours | $30

Assembling OpenUSD Data for Digital Twins

- Assembling Your First Digital Twin with Omniverse and OpenUSD — 4 Hours | Free
- → Preparing 3D Assets for Simulation and Physical AI — Article
- → Learn OpenUSD: Creating Composition Arcs — 3 Hours | Free
- → Learn OpenUSD: Asset Structure Principles and Content Aggregation — 3 Hours | Free
- → Learn OpenUSD: Developing Data Exchange Pipelines — 1.5 Hours | Free
- → Learn OpenUSD: Asset Modularity and Instancing — 1.5 Hours | Free

Assembling OpenUSD Data for Digital Twins

- Synthetic Data Generation with Generative AI Reference Workflow — Workflow
- → Robotics Fundamentals Learning Path — 28 Hours | Free
- → From Perception to Prediction - Developing Physical AI with Cosmos 3 — 2 Hours | $30
- → Building AI Agents with Multimodal Models — Coming Soon

COURSE LEGEND

- Article / Blog
- Self-paced Course
- Learning Path

NVIDIA

Robotics Training

For developers

Link to Robotics Learning Path Webpage

Robotics Foundations

- A Beginner's Guide to Autonomous Robots — 1 Hour | Free
- From Perception to Prediction - Developing Physical AI with Cosmos 3 — 2 Hours | $30
- OpenUSD Foundations Learning Path — **11 Hours | Free**

Getting Started With Isaac Sim

- Getting Started: Simulating Your First Robot in Isaac Sim — 1.5 Hours | Free
- Ingesting Robot Assets and Simulating Your Robot in Isaac Sim — 1 Hour | Free
- Synthetic Data Generation for Perception Model Training in Isaac Sim — 2 Hours | Free
- Developing Robots with Software-in-the-Loop (SIL) in Isaac Sim — 2 Hours | Free
- Leveraging ROS 2 and Hardware-in-the-Loop (HIL) in Isaac Sim — 2 Hours | Free

Getting Started With Isaac Lab

- An Introduction to Robot Learning and Isaac Lab — 3 Hours | Free
- Train Your First Robot in Isaac Lab — 2 Hours | Free
- Train Your Second Robot in Isaac Lab — 2 Hours | Free
- Transferring Robot Learning Policies from Simulation to Reality — 1 Hour | Free

Getting Started with Isaac ROS

- An Introduction to AI-Based Robot Development With Isaac ROS — ½ Hour | Free
- Accelerating ROS 2 with NVIDIA GPU-Powered Libraries and AI Models — 3 Hours | $30

Going Further With Robotics

- Best Practices for Robotics and OpenUSD — 1 Hour | Free
- Digital Twin Robotics: Immersive Software-in-the-Loop Testing With OpenUSD, Isaac Sim, and ROS — 2 Hours | Free
- Develop, Simulate, and Deploy Robot Intelligence With General Robotics — 1 Hour | Free
- Scalable Multi-Robot Scene Workflows Using ROS Simulation Interfaces Standard in Isaac Sim — 1 Hour | Free
- Getting Started With Isaac for Healthcare — 2 Hours | Free
- Generating High-Quality Motion Data for Robotics with MobilityGen — 1.5 Hours | Free

COURSE LEGEND

- Self-paced Course
- Learning Path

NVIDIA

Physical AI and Simulation Training

For developers and administrators

Omniverse Kit-Based Development

- **An Introduction to Developing With NVIDIA Omniverse** — 2 Hours | Free
- **Creating an Omniverse Extension With Python** — 2 Hours | Free
- **Extend Omniverse Kit Applications for Building Digital Twins** — 2 Hours | Free
- **Building and Deploying Digital Twin Applications With Omniverse Kit App Streaming** — 2 Hours | $30
- **Develop AI-Powered Operational Dashboards for Digital Twin Applications** — Coming Soon

Assembling Digital Twins for Physical AI

- **Getting Started With Digital Twin Scene Assembly** — 90 Minutes| Free
- **Best Practices for Managing Given Assets** — 90 Minutes | Free
- **Scene Optimization and Data Integration** — 90 Minutes | Free
- **Accelerating Computer-Aided Engineering (CAE) with NVIDIA AI Physics Technology** — 8 Hours | $90
- **Fundamentals of Working With OpenUSD** — 2 Hours | Free
- **OpenUSD Foundations Learning Path** — **11 Hours | Free**

Simulation and Synthetic Data

- **From Perception to Prediction - Developing Physical AI with Cosmos 3** — 2 Hours | $30
- **Synthetic Data Generation for Perception Model Training in Isaac Sim** — 1 Hour | Free

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- NVIDIA Instructor-Led Workshop
- Learning Path

NVIDIA

Training and Certification
For Infrastructure Professionals

AI Infrastructure and Operations

Fundamentals

AI For All: From Basics to GenAI Practice
3 Hours | Free

AI Infrastructure and Operations Fundamentals
7 Hours | $50

Infrastructure & Fabric Optimization

NVIDIA Cable Validation Tool (CVT) Fundamentals
3 Hour | $50

→

Data Center Management Made Easy with NVIDIA UFM
3 Hours | $50

Cluster Provisioning & System Administration

Base Command Manager Administration
3 Hours | $50

DGX System Administration: Private Workshop
16 Hours | Contact Us

NVIDIA AI Infrastructure & Operations: Public Training
40 Hours | $5,000

Workload and GPU Orchestration

NVIDIA License System
2 Hours | Free

→

NVIDIA AI Enterprise Deployment on BareMetal Kubernetes
3 Hours | $100 | 12 Hours | $1,500

→

Run:ai Platform Deployment
3 Hours | $50

Run:ai for AI Practioners Public Training
8 Hours | $1,000

Run:ai for Platform Administration Private Workshop
8 Hours | $1,000

Advanced Scaling

BlueField DPU Administration
3 Hours | $50

AI Factory Learning Path .

AI Factory Compute Deployment
50 Hours | $2,000

NCP Training (For NCP Partners Only) .

NCP GB200/GB300 Administration Training Private Workshop
28 Hours | Contact Us

NCP HGX 8-Way Administration Private Training Workshop
16 Hours | Contact Us

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AI Infrastructure & Operations Certification

Associate Certifications

AI Infrastructure and Operations (8 hours, $150 special package price)

AI Infrastructure and Operations Fundamentals	→	**AI Infrastructure and Operations Certification****
7.5 Hours | $50		1 Hour | $125

Professional Certifications

AI Infrastructure (27 hours, $3,400)

NVIDIA AI Infrastructure: Public Training	→	**Professional AI Infrastructure Certification****
25 Hours | $3,000		2 Hours | $400

AI Operations (22 hours, $3,000)

NVIDIA AI Operations: Public Training	→	**Professional AI Operations Certification****
20 Hours | $2,500		2 Hours | $500

AI Operations & Infrastructure Combination (22 hours, $3,000)

NVIDIA AI Infrastructure and Operations: Public Training	→	**Professional AI Infrastructure Certification****	**Professional AI Operations Certification****
30 Hours | $5,000		2 Hours | $400	2 Hours | $500

Digital Badge Available
**

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- NVIDIA Instructor-Led Workshop
- NVIDIA Certification Exam

NVIDIA

AI Networking Training

Fundamentals

AI Infrastructure and Operations Fundamentals
7 Hours | $50

Introduction to Networking
2 Hours | Free

NVIDIA Cable Validation Tool (CVT) Fundamentals
2 Hours | Free

Getting Started with DSX Air
1.5 Hours | Free

AI Factory Learning Path .

AI Factory Network Deployment
80 Hours | $2,000

Dual-Fabric Basics .

InfiniBand Essentials
1 Hour | Free

InfiniBand Network Administration
5.5 Hours | $200
16 Hours | Contact Us

SONiC Essentials by NVIDIA
1 Hour | Free

Cumulus Linux Essentials
2 Hours | Free

Cumulus Linux Administration
5 Hours | $100
12 Hours | $1,500

Fundamentals of RDMA Programming
5 Hours | $50

RDMA Over Converged Ethernet from A to Z
.5 Hours | Free

Diagnostics and Fabric Management

MLXlink and MLX Cable Debug Tools
1.5 Hours | Free

Data Center Management Made Easy with NVIDIA UFM
3 Hours | $50

NetQ Deployment and Installation
2 Housr | Free

Scaled AI Infrastructure

Spectrum-X Networking Platform Administration Private Workshop
12 Hours | Contact Us

BlueField DPU Administration
4 Hours | $50

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NVIDIA Instructor-Led Workshop
NVIDIA Certification Exam

AI Networking Certification

Professional Certification

AI Networking (10.5 hours, $600) .

Digital Badge Available
**

COURSE LEGEND

- NVIDIA Self-paced Course
- NVIDIA Instructor-Led Workshop
- NVIDIA Certification Exam

NVIDIA

NCP HGX 8-Way Administration

Special training for our NVIDIA Cloud Partners; purchase and enroll in entire learning path
View learning path here

Reference Architecture, System Administration and InfiniBand Overview

- **GPU Accelerated Infrastructure** — 1.5 Hours
- **Environment Review, GPU Administration and Partitioning** — 8 Hours

Cumulus Linux and AI-Accelerated Ethernet

- **Cumulus Linux Administration** — 5 Hours
- **AI Accelerated Ethernet Network for NCPs** — 1 Hour
- **Cumulus, Ethernet L2 and L3** — 8 Hours

InfiniBand Networking and Fabric Administration

- **InfiniBand Network Administration** — 5.5 Hours
- **Data Center Management Made Easy with NVIDIA UFM** — 3 Hours
- **High Speed Networking** — 8 Hours

AI Cluster Orchestration and Enterprise Deployment

- **Base Command Manager for NCPs** — 1 Hour
- **NVIDIA AI Enterprise Administration for NCPs** — 4.5 Hours
- **NCP Software Stack** — 8 Hours

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NVIDIA Certification Exam

NVIDIA

NCP GB200/300 Administration

Special training for our NVIDIA Cloud Partners; purchase and enroll in entire learning path
View learning path here

Reference Architecture, System Administration and InfiniBand Overview

- **GPU Accelerated Infrastructure** — 3.5 Hours
- **NCP Reference Architecture and System Administration** — 8 Hours

Cumulus and AI-Accelerated Ethernet

- **Cumulus Linux Administration** — 5 Hours
- **AI Accelerated Ethernet Network for NCPs** — 1 Hour
- **Cumulus Linux Administration** — 8 Hours

InfiniBand, NVLink, and UFM

- **InfiniBand Network Administration** — 1.5 Hours
- **Data Center Management Made Easy with NVIDIA UFM** — 2 Hours
- **NVLink for NCPs** — 3 Hours
- **High-Speed Networking** — 8 Hours

Base Command Manager, NVAIE, and Run:ai

- **Base Command Manager for NCPs** — 1 Hour
- **NVIDIA AI Enterprise Administration for NCPs** — 4.5 Hours
- **Run:ai Platform Deployment** — 2.5 Hours
- **Base Command** — 8 Hours
- **NVIDIA Mission Control** — 8 Hours

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