NVIDIA ACADEMY COURSE CATALOG

Compute and Network Training for Data Center Professionals

NVIDIA Academy offers courses and workshops covering network and compute technologies for a variety of accelerated computing deployments, based on NVIDIA solutions. This education is developed by a winning team of training developers and delivered by a team of dedicated professional instructors who bring vast field experience to each course.

HOW TO ORDER?

Instructor-led courses: training@nvidia.com | tomero@nvidia.com

Self-paced online courses: https://academy.nvidia.com/en

Certifications: https://academy.nvidia.com/en/certification-center/

INSTRUCTOR-LED COURSES

DGX SuperPOD Administration

This course is designed to help IT professionals successfully administer all aspects of a DGX SuperPOD cluster including compute, storage, and networking. Learn more

Delivery Format: Private remote / onsite training
Target Audience: IT Professionals, Network and System Admins/Engineers
SKU: 789-SPDIV4
Duration: 4 sessions of up to 4 hours each | 3-days onsite

DGX POD Administration

This course provides an overview of DGX POD components and related processes, including the NVIDIA DGX H100/A100 System; InfiniBand and ethernet networks; tools for in-band and out-of-band management; NGC; the basics of running workloads; and specific management tools and CLI commands. This course includes instructions for managing vendor-specific storage per the architecture of your specific POD solution. Learn more

Delivery Format: Private remote / onsite training
Target Audience: IT Professionals, Network and System Admins/Engineers
SKU: 789-PODIV4
Duration: 4 sessions of up to 4 hours each | 3-days onsite

DGX H100/A100 Administration

This course provides an overview the NVIDIA DGX H100/A100 system and tools for in-band and out-of-band management, NGC, the basics of running workloads, and specific management tools and CLI commands. In addition, this course includes content on multi-instance GPU, managing storage, performance validation, and other system management tools and concepts. Learn more

Delivery Format: Private remote / onsite training
Target Audience: IT Professionals, Network and System Admins/Engineers
SKU: 789-DGXIV4
Duration: 4 sessions of up to 4 hours each | 3-days onsite

DGX H100/A100 Administration Public Training

This course provides an overview of the H100/A100 System and DGX H100/A100 Stations' tools for in-band and out-of-band management, the basics of running workloads, specific management tools and CLI commands. Learn more

Delivery Format: Public remote training
Target Audience: IT Professionals, Network and System Admins/Engineers
SKU and Price: 789-DGXIV5, $1500 per seat
Duration: 3 sessions of 4 hours

NVIDIA AI Enterprise Administration Public Training

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. Learn more

Delivery Format: Public remote training
Target Audience: IT Professionals, Network and System Admins/Engineers
SKU and Price: 789-ONAIV3, $1500 per seat
Duration: 3 sessions of 4 hours

Bright Cluster Manager Administration Training

The NVIDIA Bright Cluster Manager admin course provides and overview of Bright Cluster Manager including managing nodes and software images, monitoring devices and jobs, managing users, and configuring workload managers. This course also covers using Bright Cluster Manager with cloud based nodes, configuring Bright Auto Scaler, and configuring Bright for use with GPUs including NVIDIA multi-instance GPUs. Learn more

Delivery Format: Private remote / onsite training
Target Audience: IT Professionals, Network and System Admins/Engineers
SKU: 723-BCAIO3
Duration: 3 sessions of 4 hours

Cumulus Linux Private Bootcamp

In this hands-on private training, you will learn about NVIDIA Cumulus OS architecture, installation, configuration, operation, and management of Cumulus Linux running on NVIDIA switches. Learn more

Delivery Format: Private remote / onsite training

Target Audience: IT Professionals, Network and System Admins/Engineers
SKU: 789-CUMIV5
Duration: 5 sessions of 4-hours | 4-days onsite

Cumulus Linux Public Bootcamp

Learn how to install, deploy, configure, and troubleshoot Cumulus-based networks. This course offers a perfect blend of hands-on training and theoretical education. Learn more

Delivery Format: Public remote training

Target Audience: IT Professionals, Network and System Admins/Engineers
SKU: 789-CUMBVA (APAC and Europe) / 789-CUMBVU (US and Europe), $1500 per seat
Duration: 3 sessions of 4-hours

Cumulus Linux Customized Advanced Training

This course focuses on advanced topics to build and operate a state-of-the-art data center or storage fabric with emphasis on troubleshooting. The course includes advanced topics such as: Filtering (Data-Path via IP-Tables and Routing via Route-Maps), QoS (RoCE), EVPN-MH, monitoring and active testing. This course may be combined with our Data Center Automation course to provide the most comprehensive training. Learn more

Delivery Format: Private remote / onsite training

Target Audience: IT Professionals, Network and System Admins/Engineers
SKU: 789-CMPIO5
Remote Training Duration: 3 Sessions of 4-hours or 5 sessions of 4-hours with Data Center Automation Training
Onsite Training Duration : 3-days or 4 days with Data Center Automation Training

Data Center Automation Training

This modular and customizable training helps you implement an automation infrastructure for the data center. It focuses on networking devices running Linux e.g., Cumulus Linux and SwitchDev, but also includes Compute or Storage nodes running (Debian/Ubuntu) Linux. This course covers the entire data center, with a focus on vendor independence and openness. Learn more

Delivery Format: Private remote / onsite training

Target Audience: IT Professionals, Network and System Admins/Engineers
SKU: 789-CMPIO5
Duration: 2 Sessions of 4-hours

InfiniBand Professional Customized Training

In this course, you will learn about InfiniBand architecture and how to manage, monitor and troubleshoot your InfiniBand network. Learn more

Delivery Format: Private remote / onsite training
Target Audience: IT Professionals, Network and System Admins/Engineers
SKU: 789-IBPIV4
Duration: 4 Sessions of 4-hours

InfiniBand & Cumulus Training for Triad Deployments

In this course, you will learn about InfiniBand and Cumulus architecture and how to manage, monitor and troubleshoot triad deployment-based networks.

Delivery Format: Private remote / onsite training

Target Audience: IT Professionals, Network and System Admins/Engineers
SKU: 789-CUSCOS
Duration: 4 Sessions of 4-hours

SELF-PACED ONLINE COURSES

Platinum Membership ✵

This membership plan provides full access to all NVIDIA Academy self-paced courses (view full course list below), and free video library access. Learn more

SKU and Price: 789-ACPMSP, $450 Annual

Introduction to AI in the Data Center

Explore an introduction to AI, GPU (Graphic Processing Unit) computing, NVIDIA AI software architecture, and how to implement and scale AI workloads in the datacenter. Learn more

Target Audience: IT Professionals, Network and System Admins/Engineers
Price: $49 single course I $450 as part of Platinum membership
SKU: 789-ADCCSP

InfiniBand Essentials

This self-paced course covers the fundamental first steps into the world of InfiniBand. If you are looking to become more familiar with InfiniBand's benefits, uses, architecture layers, and management concepts, this is the best place to start. Learn more

Target Audience: IT Professionals, Networking and System Admins/Engineers
Price: Free course

InfiniBand Professional

This course covers the fundamentals of the InfiniBand technology from a usability point of view and builds on the details of the InfiniBand architecture specification. You will learn how to install, configure, manage, troubleshoot, and monitor your InfiniBand network. Learn more

Target Audience: IT Professionals, Network and System Admins/Engineers
Price: $250 single course I $450 as part of Platinum membership
SKU: 789-IBPCSE

DGX Cloud Administration

This course is based on NVIDIA DGX Cloud using NIVIDIA Base Command Platform. If you are new to DGX Cloud and want to learn how to get started with the basic admin tasks and usage, this course is for you. Learn more

Target Audience: IT administrators, AI practitioners, and Data Scientists that will manage or run jobs in DGX Cloud
Price: Free course

NVIDIA AI Enterprise Administration

In this course you will learn how to deploy and administer the NVIDIA AI Enterprise Solution in a VMware vSphere environment with Docker containers. Taking the NVIDIA AI Enterprise Administration course provides you with a competitive edge by equipping you with in-demand skills and knowledge required to effectively administer an AI infrastructure in enterprise settings. This course will empower you to navigate the complexities of AI deployments and drive successful outcomes in your organization. Learn more

Target Audience: IT professionals, including system administrators and DevOps, who are expected to successfully deploy and administer the NVIDIA AI Enterprise solution.
Price: $99 single course I $450 as part of Platinum membership
SKU: 723-NAICSP

NeMo Framework

This course is based on NeMo Framework and covers both theoretical and practical aspects of working with Large Language Models. This course provides a comprehensive understanding of how to use NeMo Framework. It includes the technical product overview, large scale data curation using NeMo Data Curator, Training container and AutoConfigurator, Customization techniques (PEFT and SFT), NeMo Guardrails and NeMo Inform. Learn more

Target Audience: Data Scientists, Machine Learning Engineers, Deep Learning Engineers
Price: Free course

BlueField DPU Administration

In this self-paced course, you will learn the basic concepts of BlueField DPUs as a platform for accelerated data center computing. Upon completion, you will be equipped with a set of introductory knowledge and skills that will enable you to bring-up the BlueField DPUs and begin using them to develop applications that accelerate your data centers services. Learn more

Target Audience: IT Professionals, Networking and System Admins/Engineers
Price: $49 single course I $450 as part of Platinum membership
SKU: 723-BFDCSP

Introduction to Networking

In this course we will cover the basics of networking, introduce some of the most used TCP/IP protocols and cover the fundamentals of an Ethernet network. In addition, you'll be equipped with the basic knowledge to understand the main data center requirements and how they can be fulfilled. Learn more

Target Audience: IT Professionals, Networking and System Admins/Engineers
Price: Free course

Network Administration with NVIDIA ONYX Switch System

This course provides the required set of skills to configure and manage NVIDIA ethernet switch systems. You will 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. Learn more

Target Audience: IT Professionals, Networking and System Admins/Engineers
Price: $99 single course I $450 as part of Platinum membership
SKU: 789-ONXCSP

Introduction to Bright Cluster Manager

This course is based on NVIDIA Bright Cluster Manager and gives an overview of the usage and components of the software. In addition, it gives a step-by-step guide through the methods to install NVIDIA Bright Cluster Manager on a head node and the steps necessary to bring up a functioning cluster managed by NVIDIA Bright Cluster Manager. Learn more

Target Audience: IT Professionals, Networking and System Admins/Engineers
Price: Free course

Bright Cluster Manager Administration

This course is based on NVIDIA Bright Cluster Manager and gives an overview of the cluster management tools, Bright View and CMSH. This course also gives information on environment modules. The processes for provisioning nodes and creating software images are also covered. Learners in this course will also learn about Interacting with switches, NVIDIA GPU integration, and the Health Management Framework. Learn more

Target Audience: IT Professionals, Networking and System Admins/Engineers
Price: Free course

Bright Cluster Manager Auto Scaling Hybrid Cloud

This course is based on NVIDIA Bright Cluster Manager and gives an overview of extending the cluster to the cloud with Cluster as a service and cluster extension (i.e. Hybrid Cloud) The processes for deploying cluster as a service and cluster extensions for AWS and Azure are covered in detail. This course also shows how to setup and use of Bright auto scaler. The final topic is the setup and use of the automated cloud job data management (CMJOB) for improving flexibility and productivity of the cluster. Learn more

Target Audience: IT Professionals, Networking and System Admins/Engineers
Price: Free course

Ansible Essentials for Network Engineers

In this course, you will explore a variety of Ansible modules, and write playbooks specifically adapted to modern data centers. This course includes an exclusive hands-on lab environment and exercises to practice real-world scenarios in real cloud environments. Learn more

Target Audience: IT Professionals, Networking and System Admins/Engineers
Price: $49 single course I $450 as part of Platinum membership
SKU: 789-ANECSP

The Fundamentals of RDMA Programming

This course allows C programmers to dive into the RDMA programming world without requiring previous experience in networking or RDMA programming. We have also added tips and tricks, as well as do's and don'ts so that the skills you acquire will truly serve you when you need them. Learn more

Target Audience: Developers, IT Professionals
Price: $49 single course I $450 as part of Platinum membership
SKU: 789-RDMCSP

RDMA over Converged Ethernet (RoCE) from A to Z

In this course you will learn what is RoCE, how it works, get familiar with the different network types RoCE can run over and also learn how to configure RoCE for each network type. Learn more

Target Audience: IT Professionals, Networking and System Admins/Engineers
Price: Free course

NVIDIA License System

NVIDIA License System (NLS) is a new licensing solution to support the continued expansion of the NVIDIA enterprise software portfolio. This course will help you to learn about NLS and how you can move from your existing licensing solution to NLS. Learn more

Target Audience: IT Professionals, Networking and System Admins/Engineers
Price: Free course

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.
Learn more

Target Audience: IT Professionals, Networking and System Admins/Engineers
Price: Free course

Data Center Management Made Easy with NVIDIA UFM

In this course you will learn about UFM Enterprise, how to automate network discovery and provisioning, how to perform traffic monitoring and congestion discovery with UFM. In addition, you will discover how to enable job schedule provisioning and how to integrate with industry-leading job schedulers and cloud and cluster managers, including Slurm and Platform Load Sharing Facility (LSF). Learn more

Target Audience: IT Professionals, Networking and System Admins/Engineers
Price: $49 single course I $450 as part of Platinum membership
SKU: 789-UFMCSP

CERTIFICATIONS ⚜

The NVIDIA Certification Program enables partners, customers, and other professionals to demonstrate their skills and expertise. Further your career options by successfully completing an NVIDIA certification. <u>Learn more</u>

NVIDIA Certified Associate - AI 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. <u>Learn more</u>

Price: $135
SKU: 789-ADCESE
Prerequisites: A basic understanding of data center infrastructure
Validity: two years

NVIDIA Certified Professional – InfiniBand

This is an intermediate level certification that validates core concepts for designing, deploying, and managing NVIDIA InfiniBand Fabrics. <u>Learn more</u>

Price: $220
SKU: 789-IBPESE
Prerequisites: A thorough understanding of data center infrastructure and networking
Validity: two years