

MICROSOFT OFFICIAL CURRICULUM

NVIDIA

# Generative AI With Diffusion Models

Program aligned

Official NVIDIA DLI generative AI course focused on building text-to-image applications with diffusion models.

AI

Intermediate

PyTorch, CLIP

DURATION

8 hours

LEVEL

Intermediate

FORMAT

Virtual, On-site, or Hybrid

CERTIFICATION

Available on request

AUDIENCE PROFILE

## Built for these roles

Built for practitioners with solid deep learning foundations who want to expand into enterprise image-generative AI workflows using diffusion models.

OVERVIEW

## Executive overview

This NVIDIA DLI course helps teams get started with generative AI application development by building a text-to-image solution with diffusion models. It combines from-scratch understanding with enterprise use of pretrained approaches to accelerate application delivery.

PROGRAM OUTCOMES

## Capabilities your teams will gain

- Build text-to-image applications with diffusion models
- Understand denoising diffusion model components and control patterns
- Use pretrained approaches to accelerate solution development
- Strengthen enterprise generative AI engineering capability beyond LLM-only workflows

ENTERPRISE CUSTOMIZATION

## Enterprise customization

Tailor this program to your organization's priorities: Expands team capability beyond text-based GenAI by building working understanding of image generation workflows and diffusion-model implementation patterns.

### Customization options

- Use your visual content use case as the workshop context
- Add multimodal and evaluation follow-on topics
- Extend into deployment and product-integration considerations

TRAINING PROVIDER

**VNode ITeS**

MICROSOFT CERTIFIED TRAINER

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CURRICULUM

## Curriculum roadmap

1

MODULE 1

### Understand diffusion-based generation

Learn the core ideas behind diffusion models and how they support modern image-generative AI applications.

- Diffusion model foundations
- Text-to-image generation workflows

2

MODULE 2

### Accelerate and refine image generation solutions

Use pretrained approaches and optimization techniques to improve output quality, speed development, and support more controlled generation.

- Pretrained model acceleration
- Optimization and output control

PRIVATE DELIVERY

## Plan a private cohort for your team





Scope delivery format, role mix, and rollout timeline with our solutions team.

Plan Private Delivery

Book advisory call

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