



# Learning Paths for Developers and Administrators

March 2024



# Learning Paths by Role and Topic

## Table of Contents

| For Developers   | For Administrators  |
|--|---|
| <a href="#">Accelerated Computing</a>                          | <a href="#">Accelerated Computing</a>                     |
| <a href="#">Computer Vision and Video Analytics</a>            | <a href="#">Data Center Overview</a>                      |
| <a href="#">Cybersecurity and Fraud Detection</a>              | <a href="#">Data Center and Cloud</a>                     |
| <a href="#">Data Science</a>                                   | <a href="#">Infrastructure for Generative AI and LLMs</a> |
| <a href="#">Deep Learning</a>                                  | <a href="#">Networking</a>                                |
| <a href="#">Edge Computing</a>                                 | <a href="#">Simulation, Data Modeling, and Design</a>     |
| <a href="#">Generative AI and Large Language Models (LLMs)</a> |   |
| <a href="#">Industry-Related Training</a>                      |   |
| <a href="#">Simulation, Data Modeling, and Design</a>          |   |

To develop a customized training plan for your organization, connect with one of our [training advisors](#).

# Accelerated Computing Training

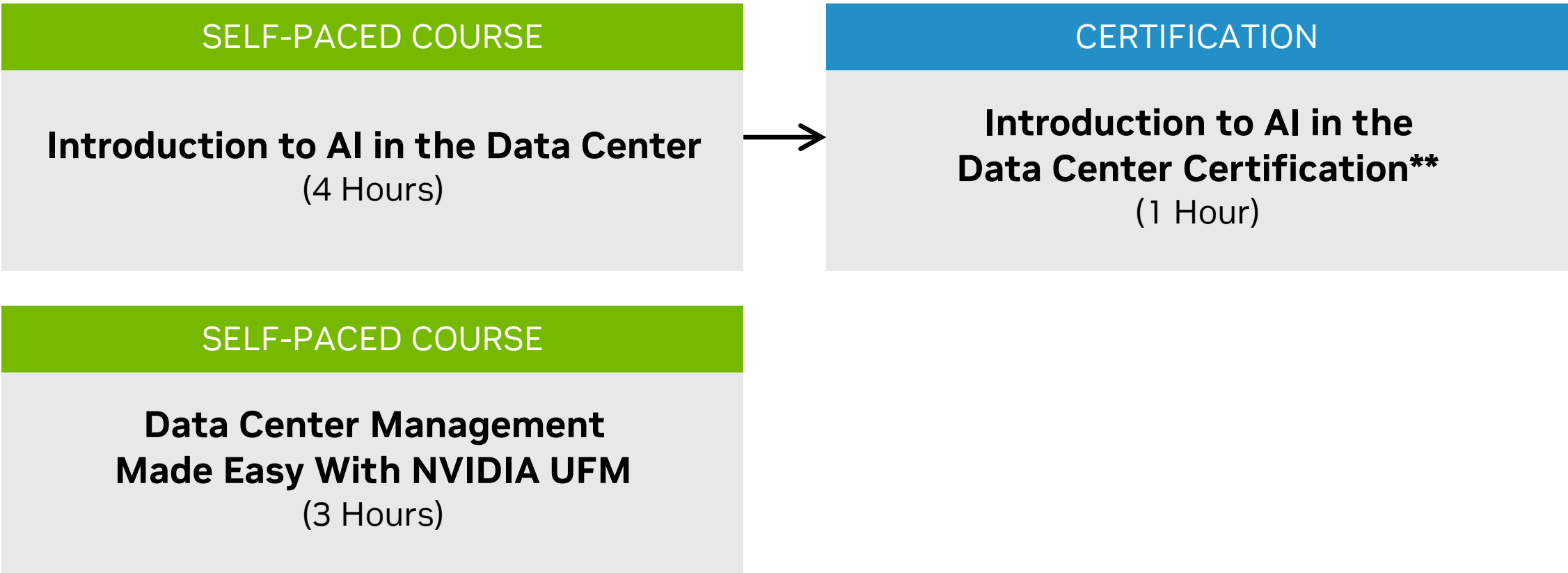
## For Developers



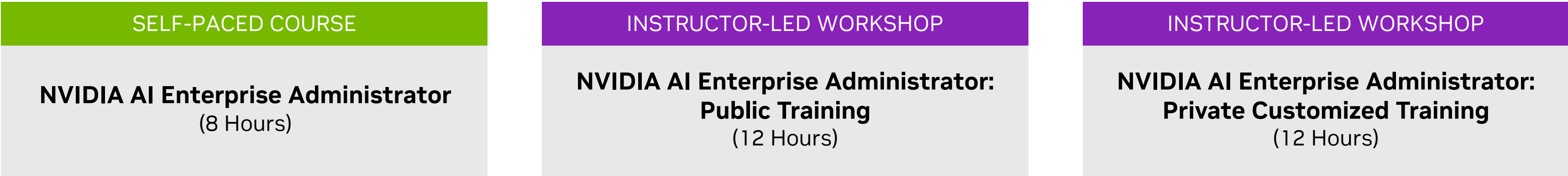
# Accelerated Computing Training

## For Administrators

### Overview



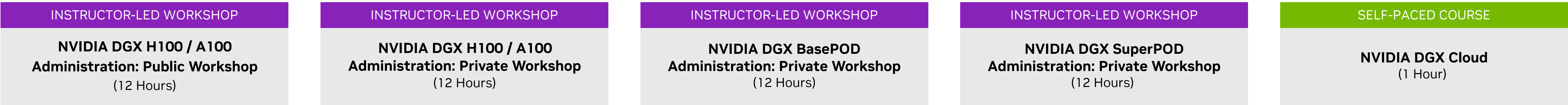
**NVIDIA AI Enterprise** Choose the courses that best match your learning needs.



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



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



**COURSE LEGEND**

- \* NVIDIA Certificate of Competency
- \*\* Digital Badge Available
- { } Braces Indicate Alternate Paths



# Computer Vision and Video Analytics Training

## For Developers



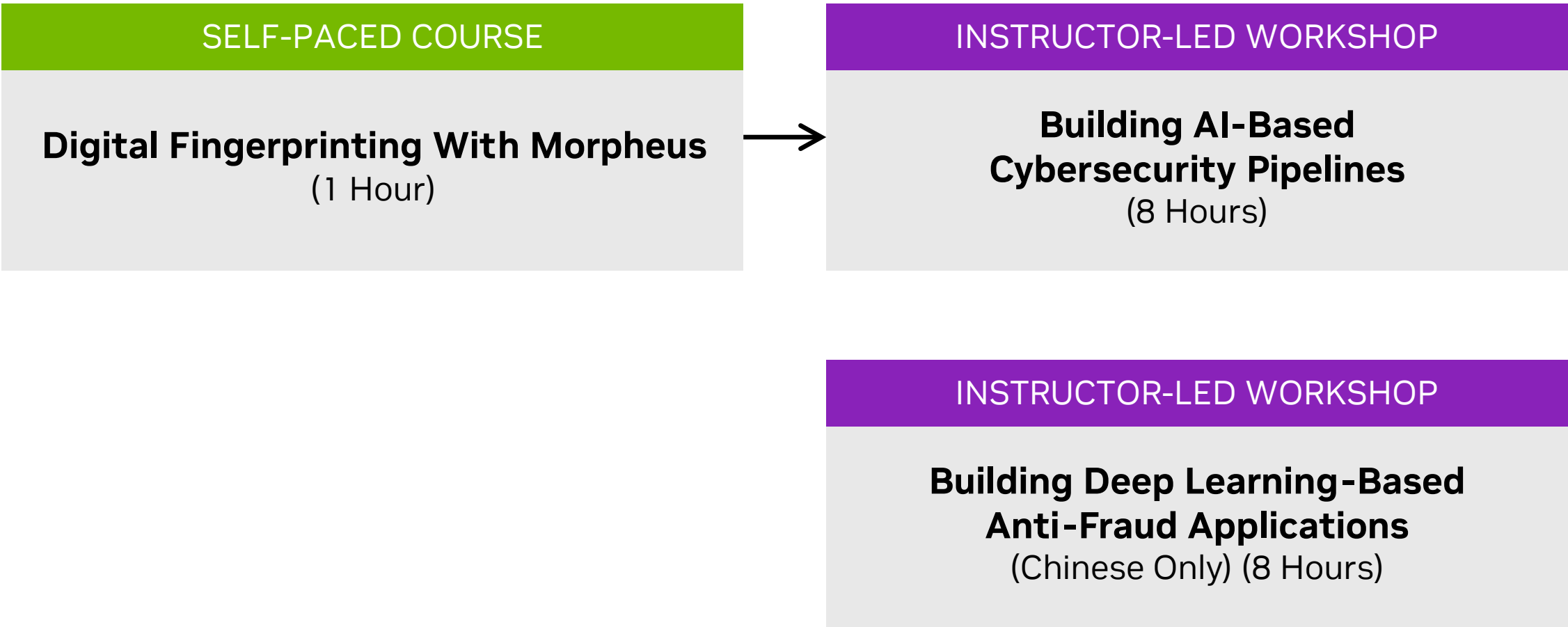
### COURSE LEGEND

- \* NVIDIA Certificate of Competency
- \*\* Digital Badge Available
- { } Braces Indicate Alternate Paths



# Cybersecurity and Fraud Detection Training

## For Developers



**COURSE LEGEND**

- \* NVIDIA Certificate of Competency
- \*\* Digital Badge Available
- { } Braces Indicate Alternate Paths

# 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<br>(4 Hours)            | NVIDIA AI Enterprise Administrator<br>(8 Hours) | NVIDIA AI Enterprise Administrator: Private Customized Training<br>(12 Hours) | NVIDIA AI Enterprise Administrator: Public Training<br>(12 Hours) | Introduction to NVIDIA Base Command Manager<br>(3 Hours) | NVIDIA License System<br>(2 Hours) |
| SELF-PACED COURSE   |   |   |   |  |                                    |
| Data Center Management Made Easy With NVIDIA UFM<br>(3 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<br>(12 Hours) | NVIDIA DGX SuperPOD Administration: Private Workshop<br>(12 Hours) | NVIDIA DGX H100 / A100 Administration: Public Workshop<br>(12 Hours) | NVIDIA DGX H100 / A100 Administration: Private Workshop<br>(12 Hours) | NVIDIA DGX Cloud Administration<br>(1 Hour) |  |

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

|  |  |                                      |
|--|--|--------------------------------------|
| SELF-PACED COURSE                      | SELF-PACED COURSE                                | SELF-PACED COURSE                    |
| Introduction to Networking<br>(1 Hour) | NVIDIA BlueField DPU Administration<br>(3 Hours) | InfiniBand Essentials<br>(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                                     |
| Introduction to NVIDIA DOCA for DPUs<br>(2 Hours) | Network Administration With NVIDIA Onyx Switch System<br>(3 Hours) | Fundamentals of RDMA Programming<br>(4 Hours) | Ansible Essentials for Network Engineers<br>(3 Hours) |

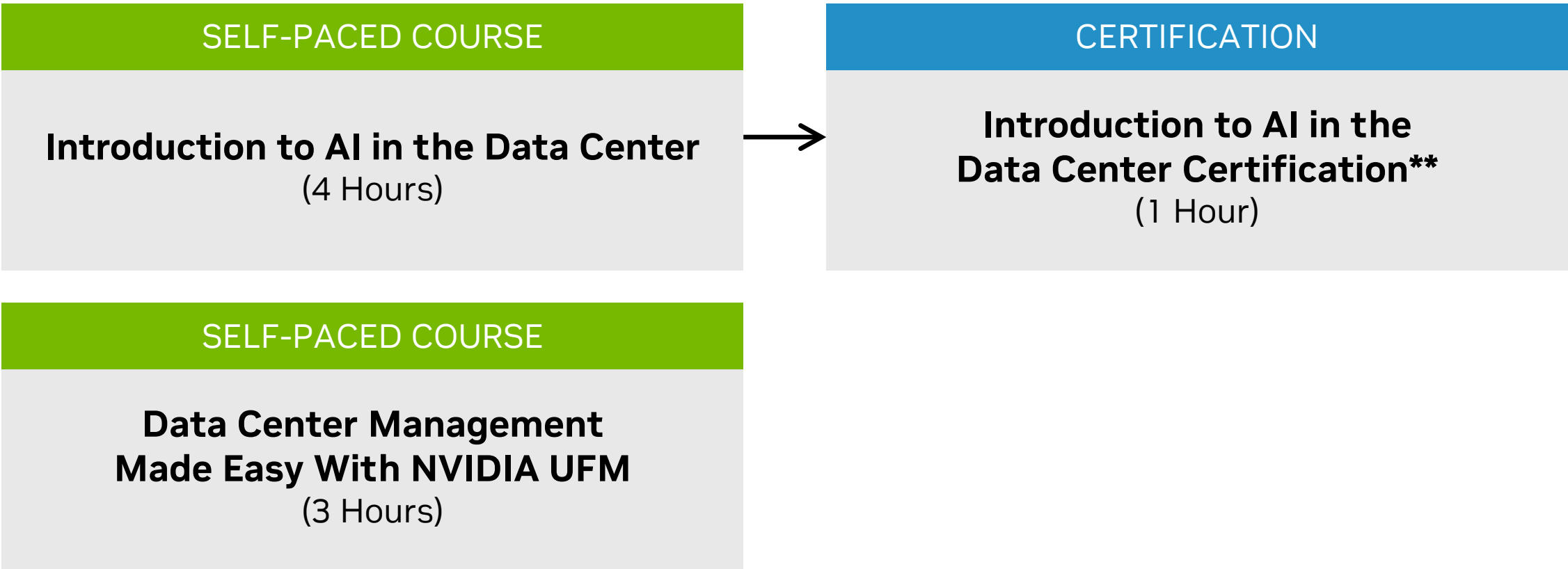
**COURSE LEGEND**

- \* NVIDIA Certificate of Competency
- \*\* Digital Badge Available
- { } Braces Indicate Alternate Paths

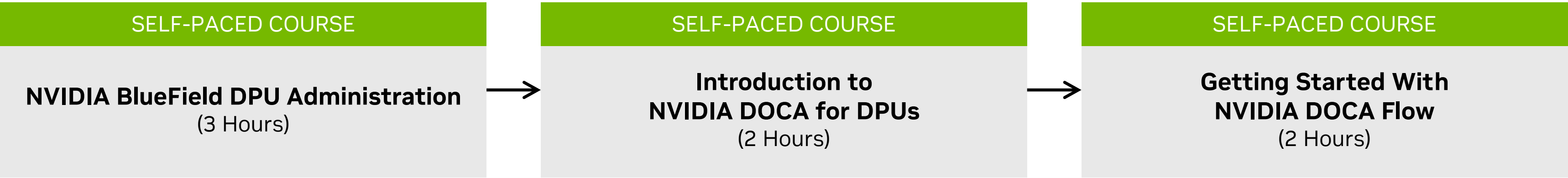
# Data Center and Cloud Training

## For Administrators

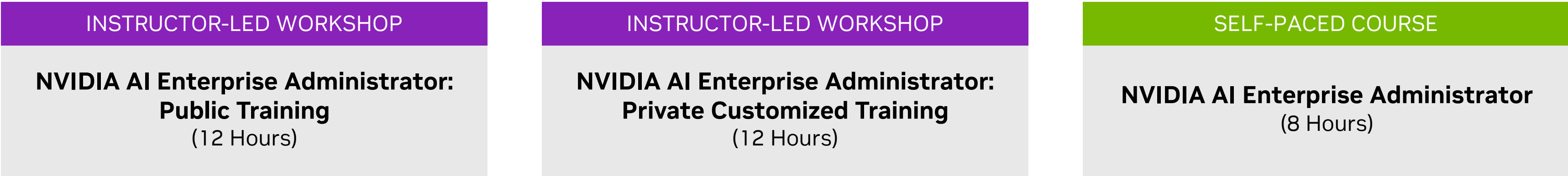
### Overview



### DPU and DOCA



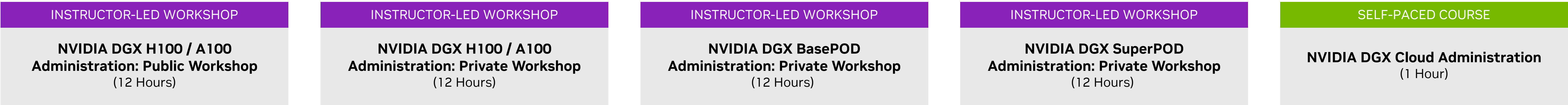
**NVIDIA AI Enterprise** Choose the courses that best match your learning needs.



### Cluster Administration



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



**COURSE LEGEND**

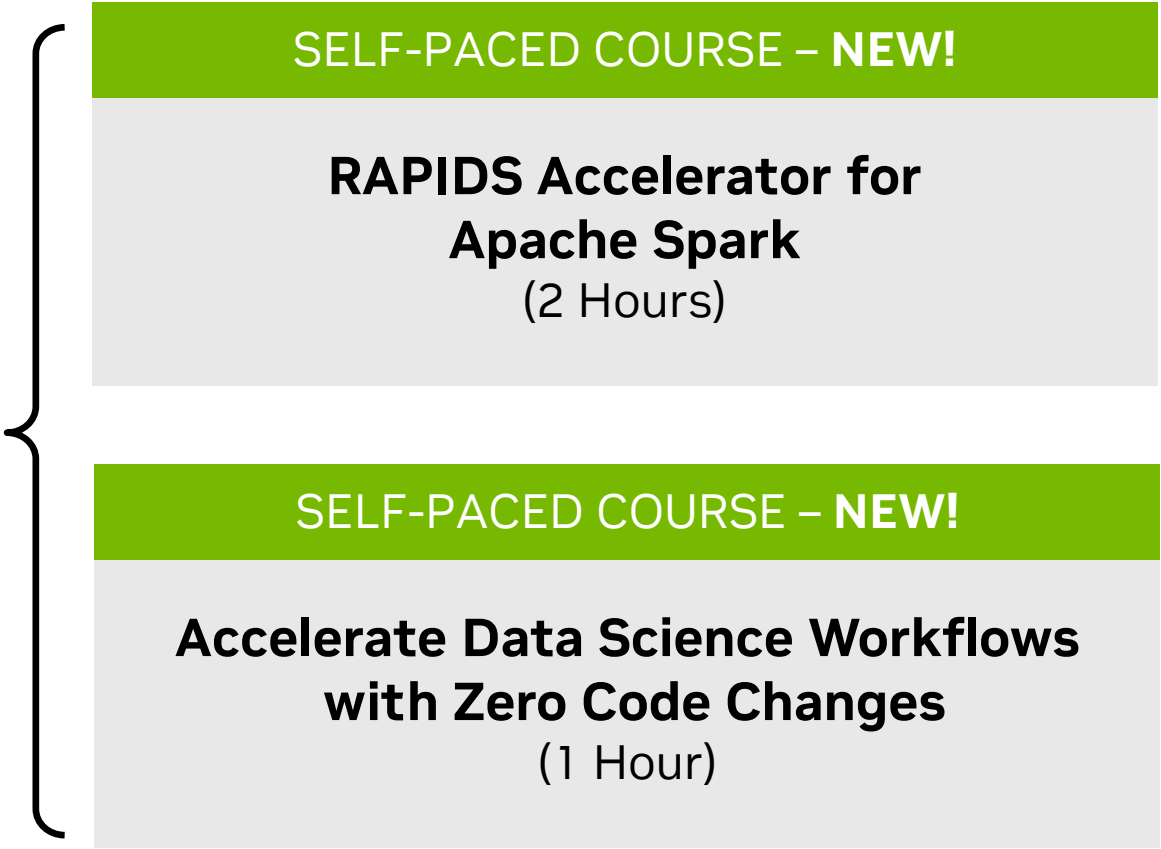
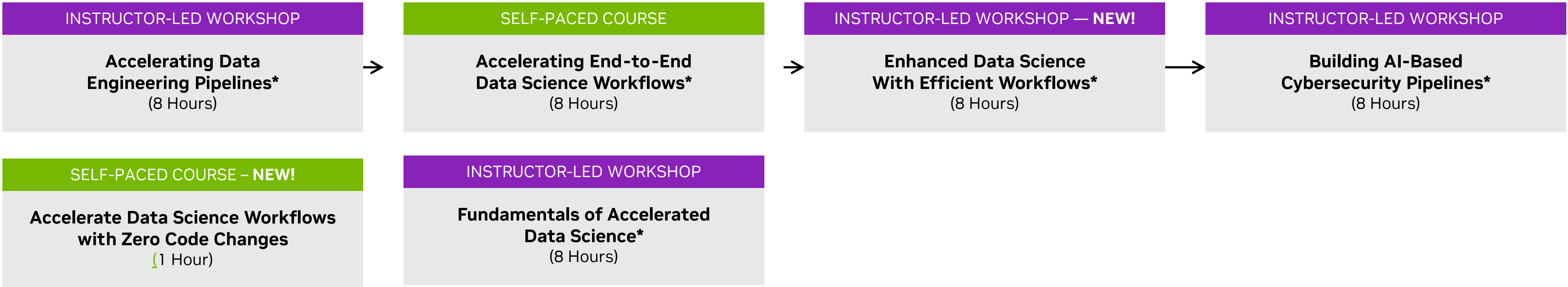
- \* NVIDIA Certificate of Competency
- \*\* Digital Badge Available
- { } Braces Indicate Alternate Paths





# Data Science Training

## For Developers



### COURSE LEGEND

- \* NVIDIA Certificate of Competency
- \*\* Digital Badge Available
- { } Braces Indicate Alternate Paths

# Deep Learning Training

## For Developers



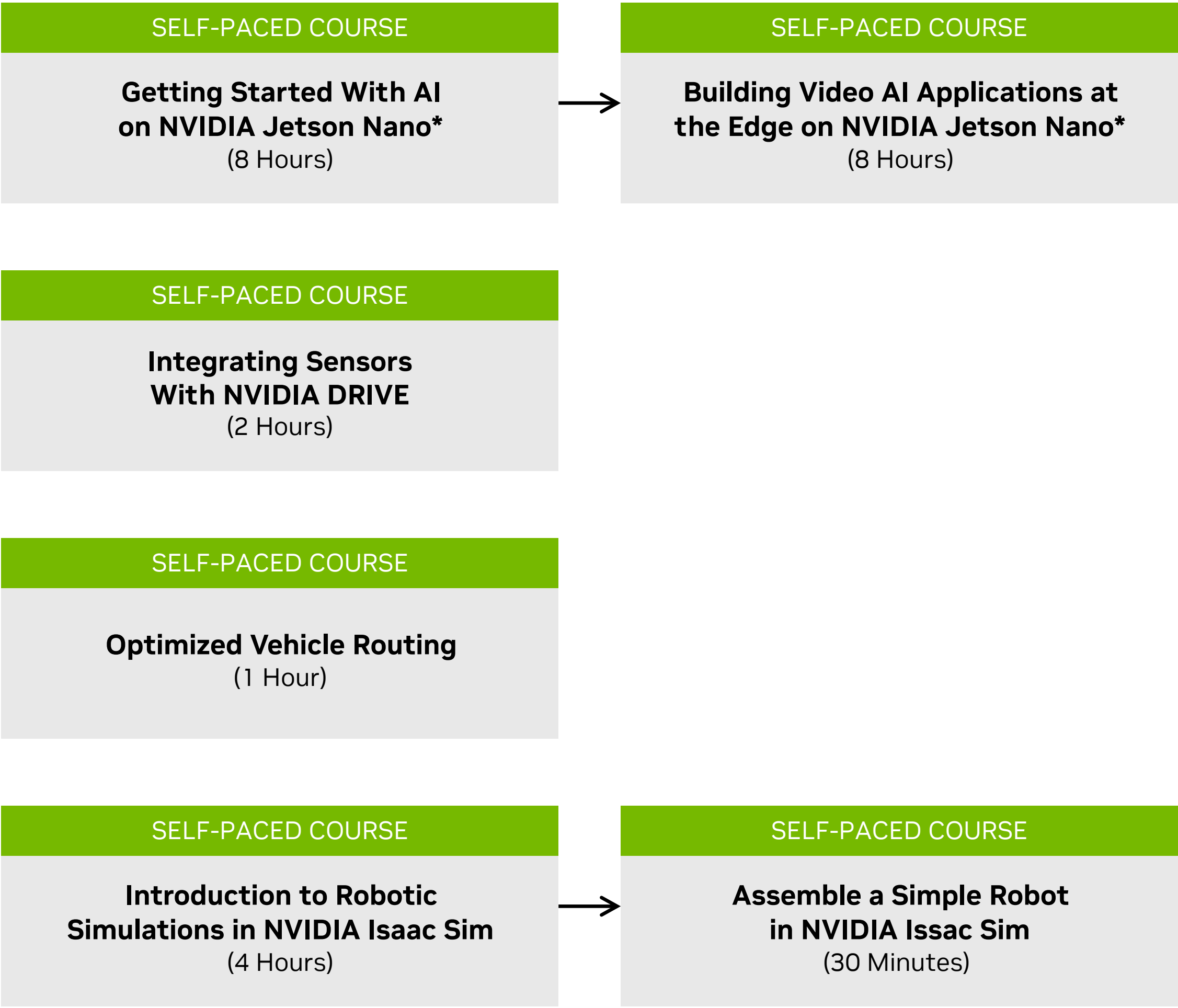
### COURSE LEGEND

- \* NVIDIA Certificate of Competency
- \*\* Digital Badge Available
- { } Braces Indicate Alternate Paths



# Edge Computing Training

## For Developers

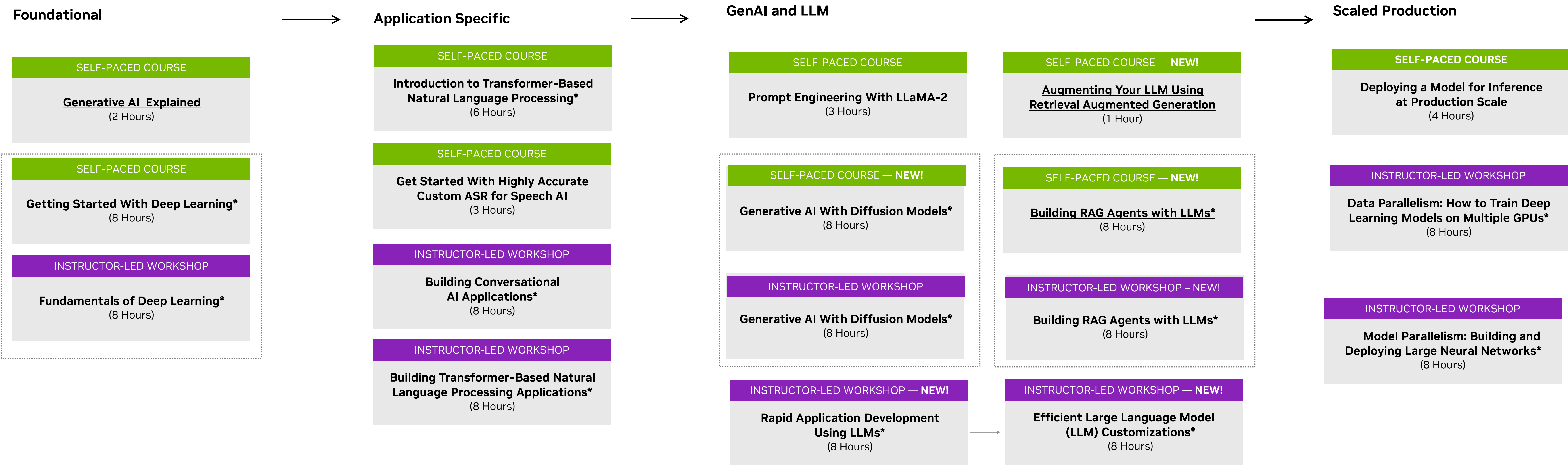


**COURSE LEGEND**

- \* NVIDIA Certificate of Competency
- \*\* Digital Badge Available
- { } Braces Indicate Alternate Paths

# Generative AI and Large Language Models Training

## For Developers



**COURSE LEGEND**

- \* NVIDIA Certificate of Competency
- \*\* Digital Badge Available
- { } Braces Indicate Alternate Paths



# 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)

### 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)

## 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)

## 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

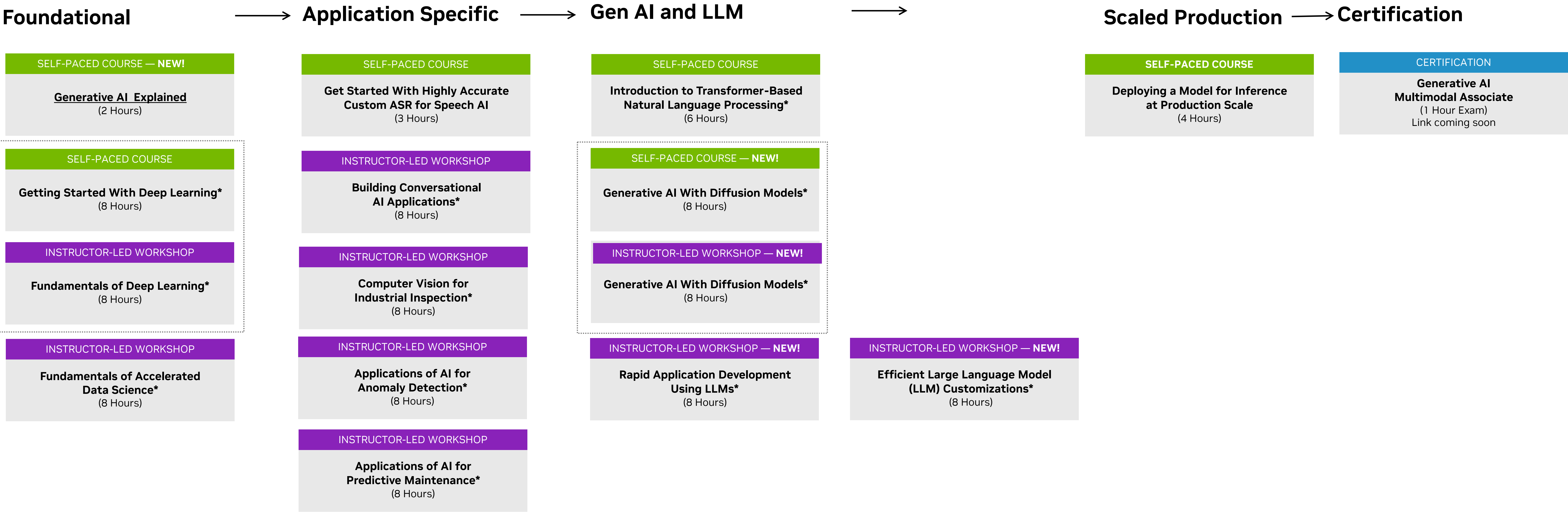
CERTIFICATION

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

### COURSE LEGEND

- \* NVIDIA Certificate of Competency
- \*\* Digital Badge Available
- { } Braces Indicate Alternate Paths

# Recommended Training for Gen AI Multimodal Certification



## 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)

### COURSE LEGEND

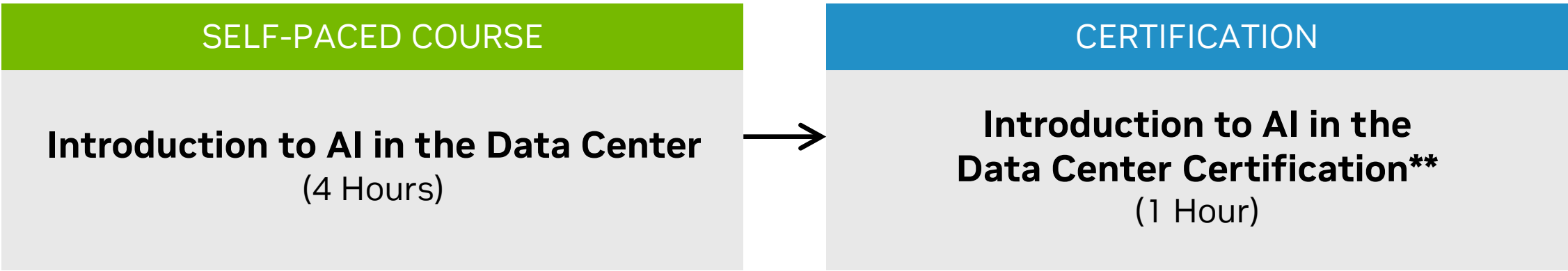
- \* NVIDIA Certificate of Competency
- \*\* Digital Badge Available
- { } Braces Indicate Alternate Paths



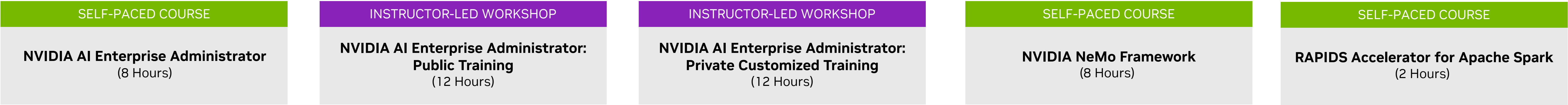
# Infrastructure for Generative AI and Large Language Models Training

## For Administrators

### Overview



### NVIDIA AI Enterprise



### NVIDIA DGX



### Introduction to Networking



### Additional Recommended Training



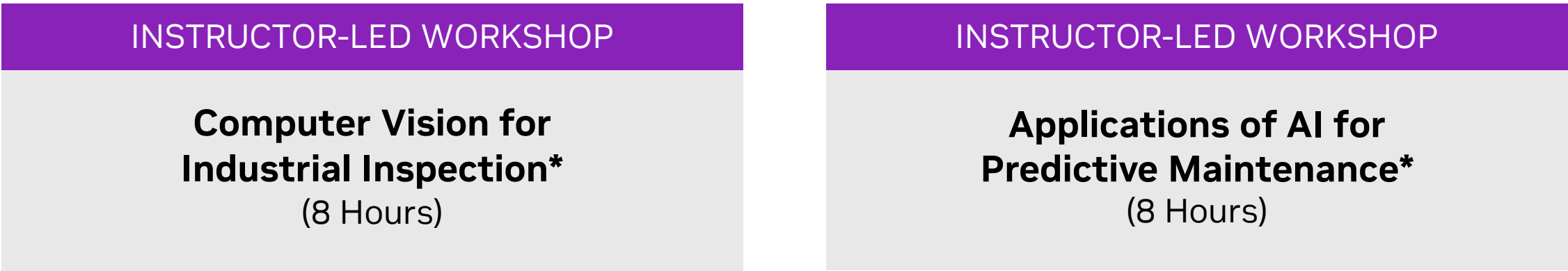
**COURSE LEGEND**

- \* NVIDIA Certificate of Competency
- \*\* Digital Badge Available
- { } Braces Indicate Alternate Paths

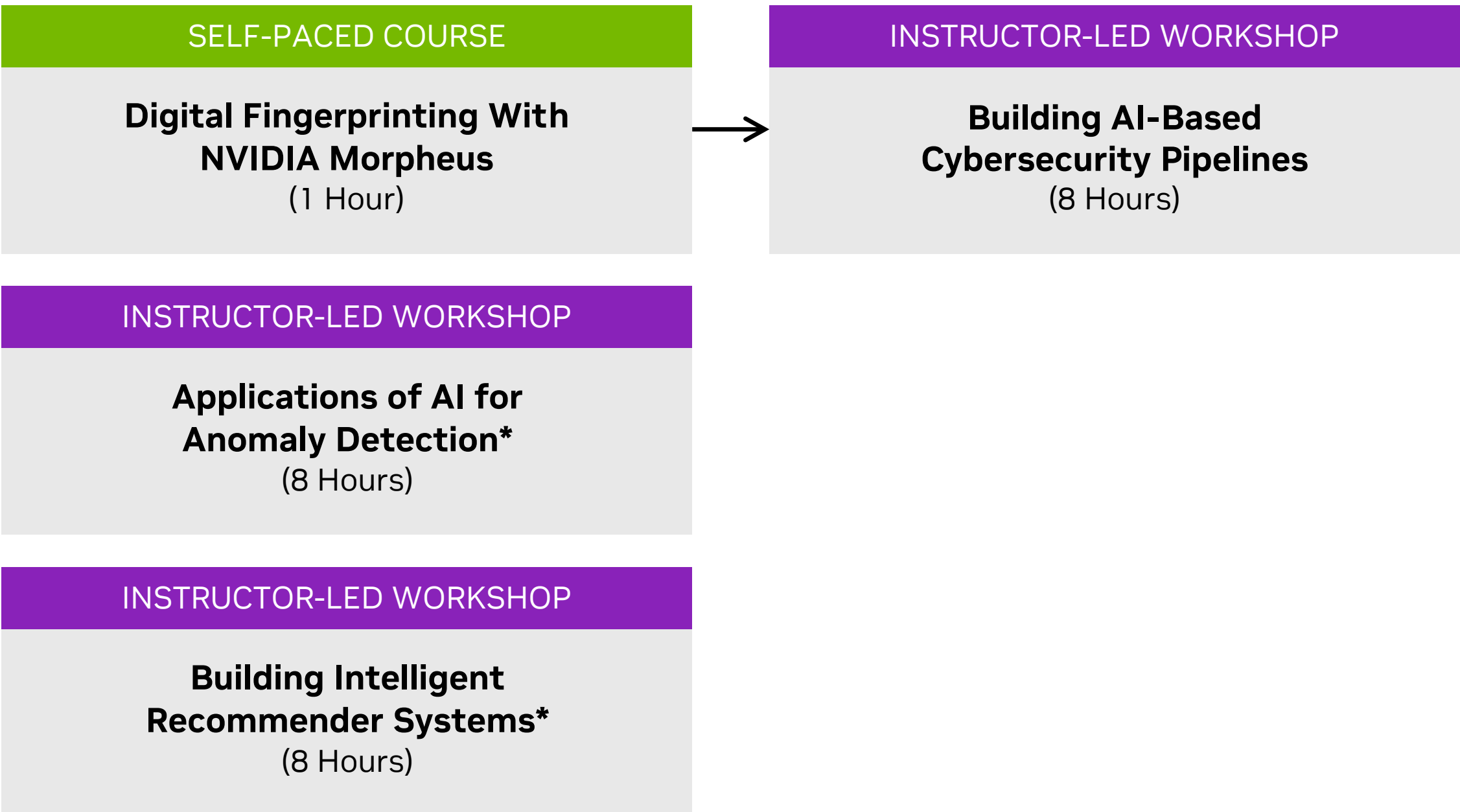
# Industry-Related Training

## For Developers

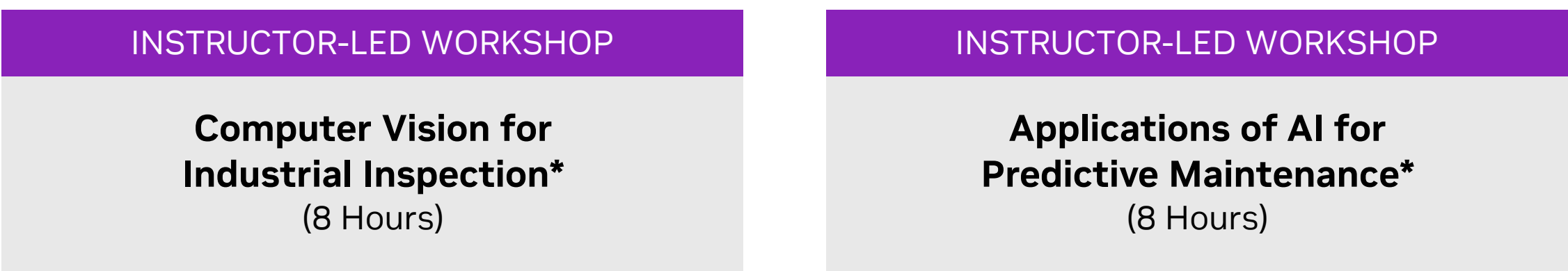
### Energy



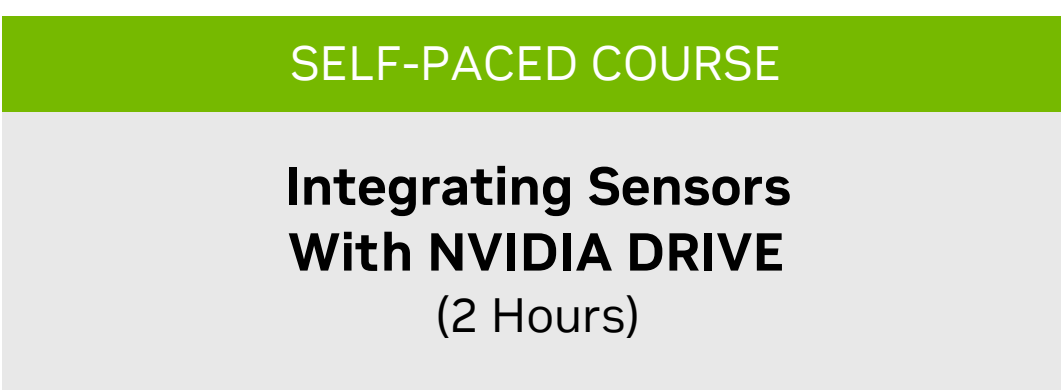
### Financial Services



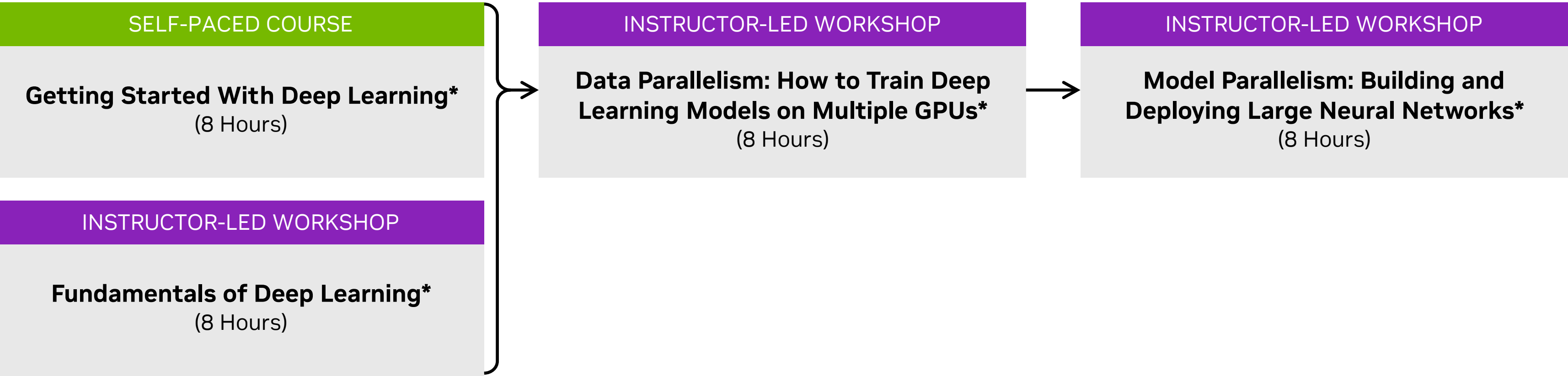
### Manufacturing



### Transportation



### Healthcare and Life Sciences



#### COURSE LEGEND

- \* NVIDIA Certificate of Competency
- \*\* Digital Badge Available
- { } Braces Indicate Alternate Paths



# Networking Training

## For Administrators

### Overview

SELF-PACED COURSE

Introduction to Networking  
(1 Hour)

### NVIDIA Cumulus

INSTRUCTOR-LED WORKSHOP

NVIDIA Cumulus Linux:  
Public Boot Camp  
(12 Hours)

INSTRUCTOR-LED WORKSHOP

NVIDIA Cumulus Linux:  
Private Customized Workshop  
(20 Hours)

### Other

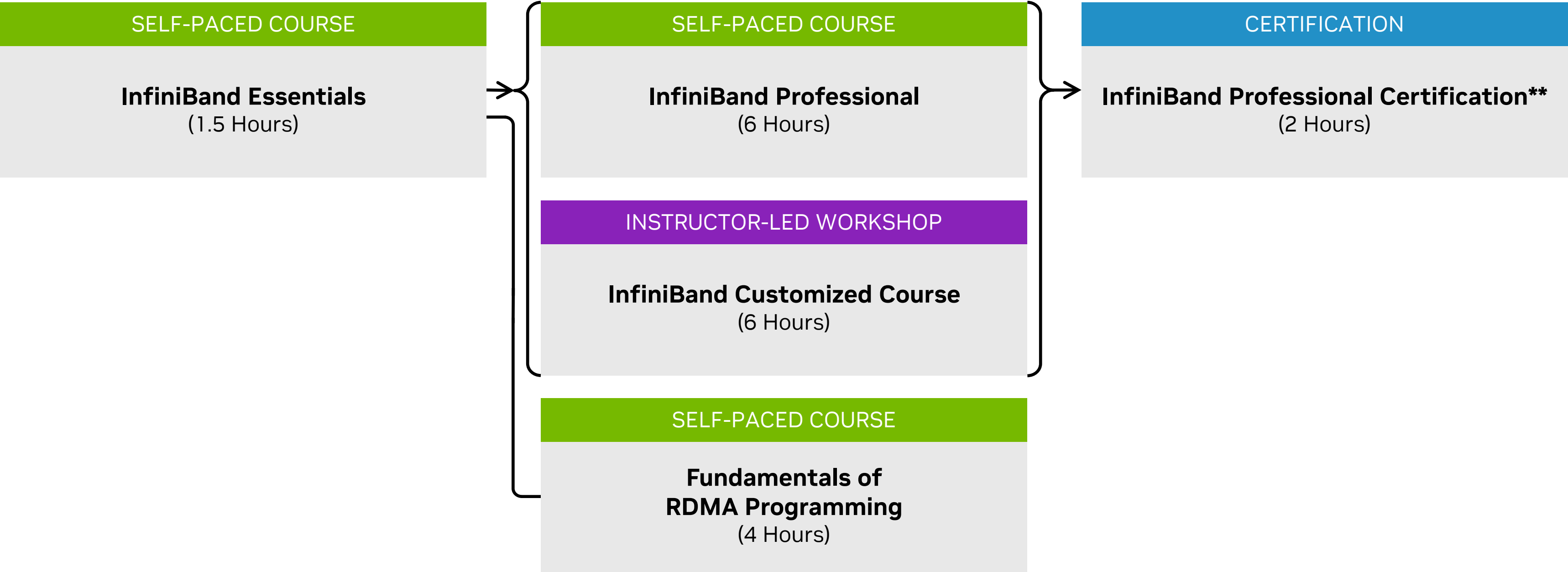
SELF-PACED COURSE

Network Administration With  
NVIDIA Onyx Switch System  
(3 Hours)

SELF-PACED COURSE

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

### InfiniBand



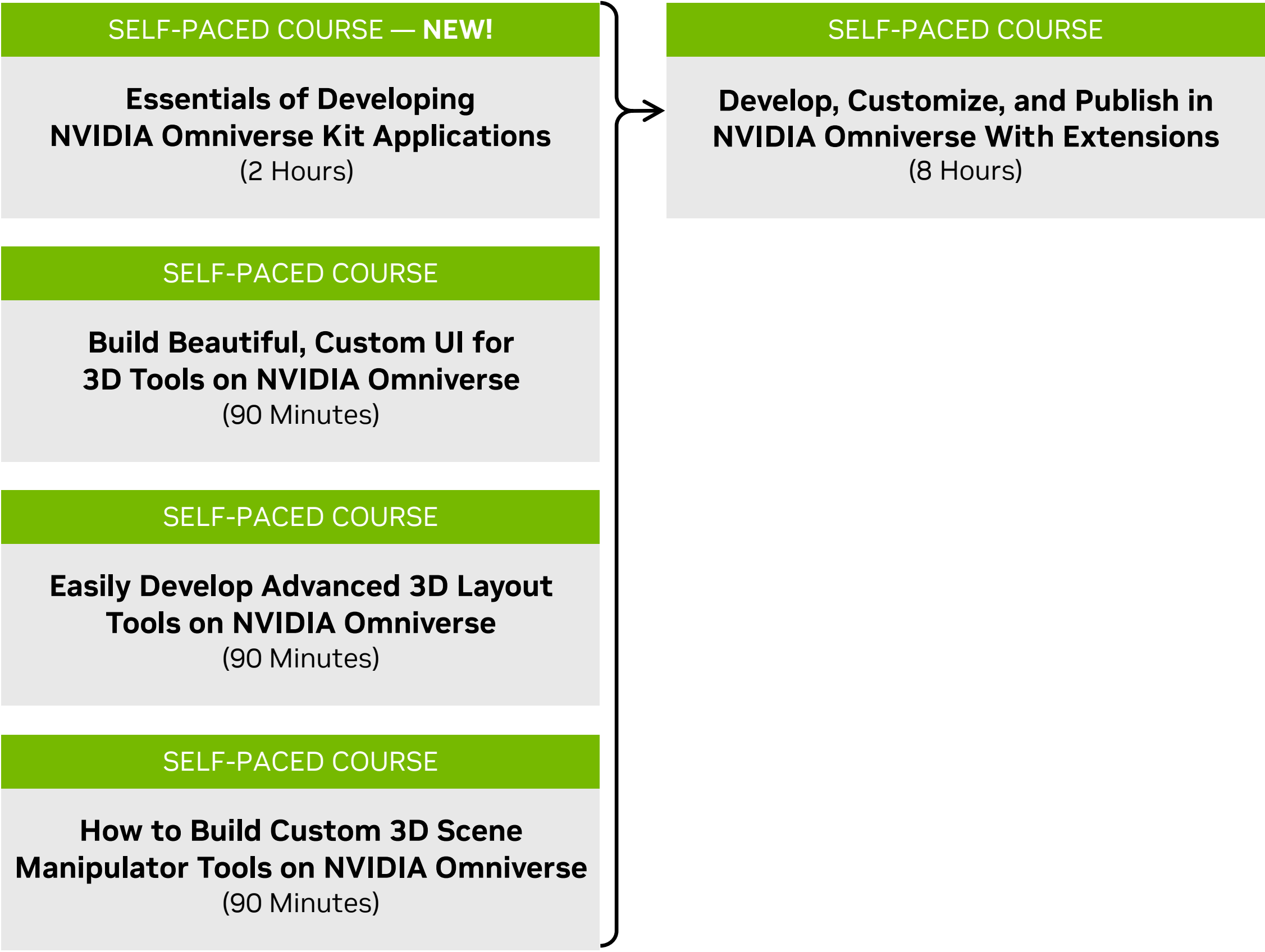
#### COURSE LEGEND

- \* NVIDIA Certificate of Competency
- \*\* Digital Badge Available
- { } Braces Indicate Alternate Paths

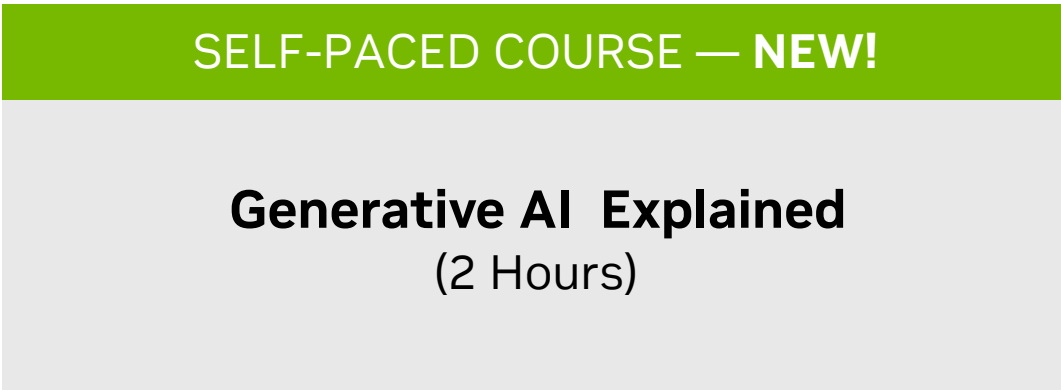
# Simulation, Data Modeling, and Design Training

## For Developers and Administrators

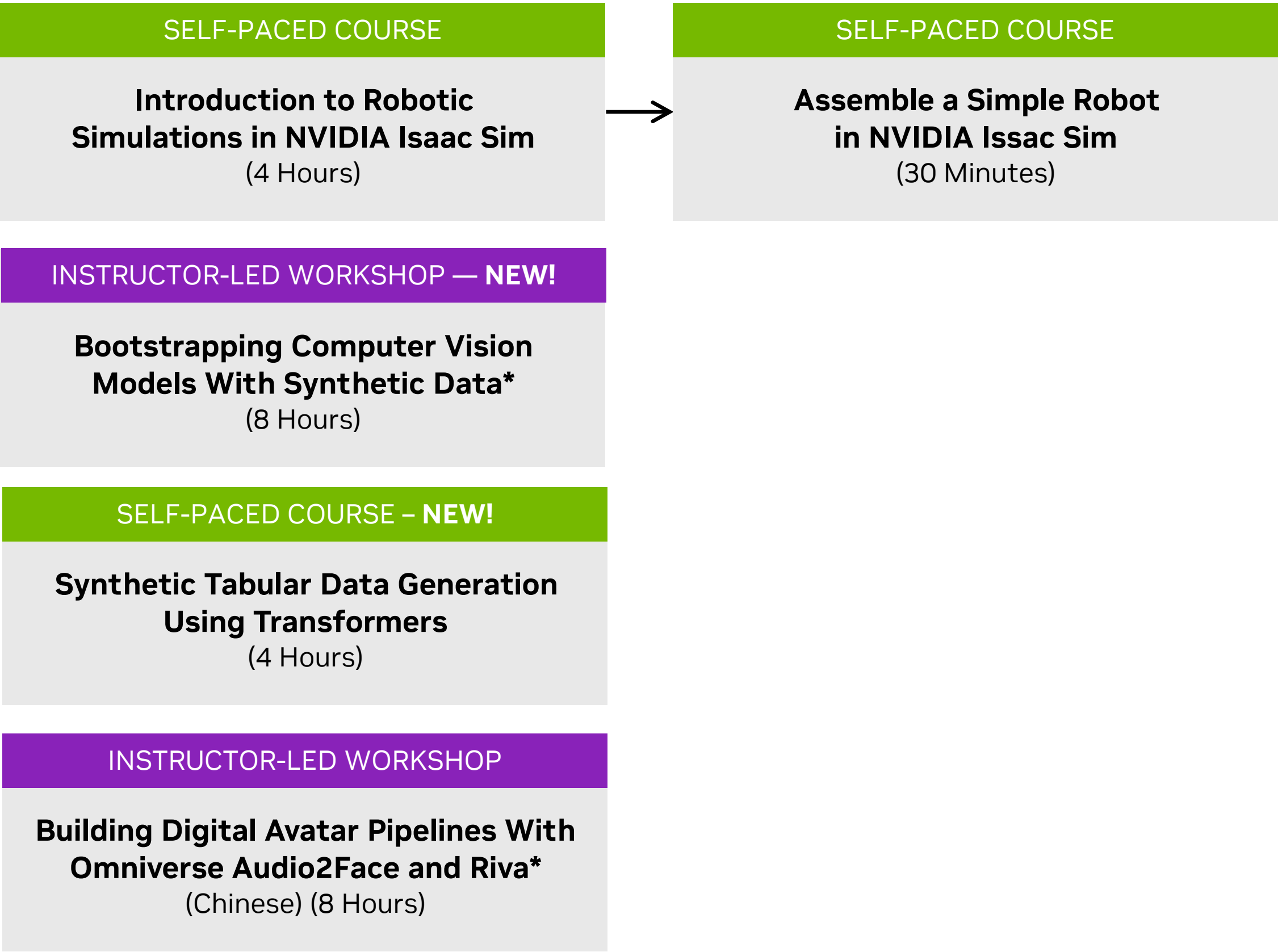
### Extensions



### Generative AI



### Simulation and Synthetic Data



### OpenUSD



#### COURSE LEGEND

- \* NVIDIA Certificate of Competency
- \*\* Digital Badge Available
- { } Braces Indicate Alternate Paths



