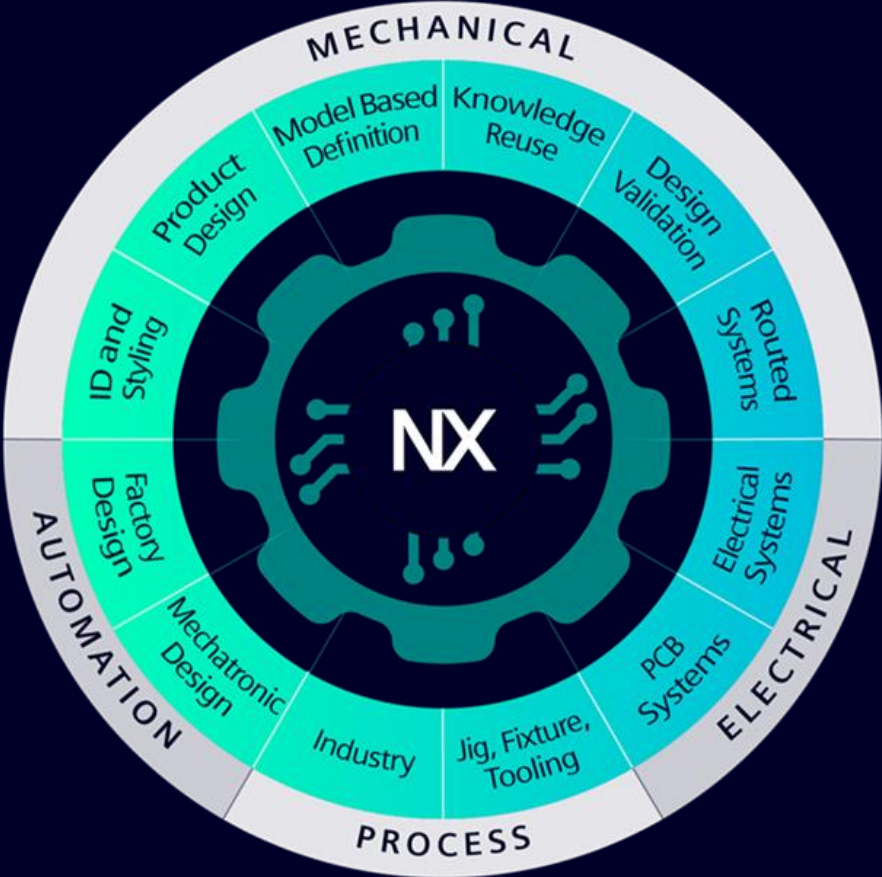


# Xcelerator Academy Learning Maps

## Your learning: At a Glance



Use our interactive learning maps as a guide to navigate through your content based upon your role then click on the icons throughout to learn more about your delivery options.



Select a role below



### LEARN THE ESSENTIALS

#### Core Mechanical Designers

New users are given an overview of NX. Users will be able to open and explore part files. Complete this level by passing the NX Design Associate certification exam.

### LEARN PRODUCT DESIGN

#### Tooling Designers

Provides Mechanical Designers the foundation they need to be successful using NX Design.

### LEARN ROUTING AND WIRING DESIGN

#### Routed systems

Provides Routed Systems Designers the foundation they need to be successful using NX Design.

#### Wiring designers

Provides Wiring Designers the foundation they need to be successful using NX Design.

### LEARN MOLD/DIE DESIGN

#### Mold / Die Designers

Provides Mold/Die Designers the foundation they need to be successful using NX Design.

### GET CERTIFIED

#### NX Associate Certification

Choose your learning and take your exam to complete the NX Associate certification.

#### NX Professional Certification

Choose your learning and take your exam to complete the NX Associate certification.

## LEARN THE ESSENTIALS

**Core Mechanical Designers**

**Designing Parts in NX**

- NX Basic Design
- Product Design Fundamentals

**Intermediate NX Design and Assemblies**

- Molded & Cast Part Design
- Loading and working with assemblies
- Design in Context of an assembly

**NX Associate Certification Exam**

Siemens Xcelerator Academy Certified

NX Design Certified Associate 2022

[Click for detailed certification course list](#)

Use NX Design!

## LEARN PRODUCT DESIGN

**Tooling Designers**

- Surface Modeling Processes
- Documenting with Drafting
- Advanced Assemblies
- Sheet Metal Design
- Model Based Definition using PMI

Design your Product!

## LEARN ROUTING AND WIRING DESIGN NX

**Routed systems/ Wiring designers**

- Routing Mechanical
- Routing Electrical
- Advanced Assemblies

Design Routing and Wiring!

## LEARN MOLD/DIE DESIGN

**Mold / Die Designers**

- Mold Wizard Fundamentals
- Mold Wizard Advanced
- Progressive Die Wizard Fundamentals

Design for Mold/ Die!

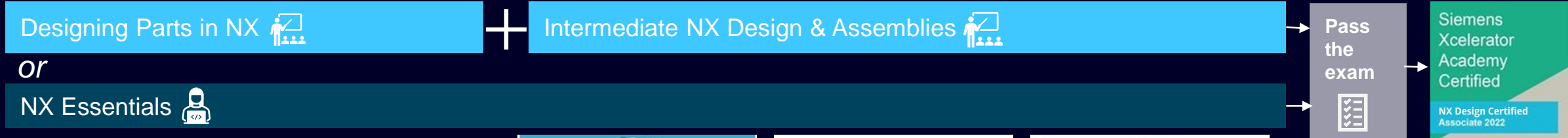
- Instructor-led training
- On-demand training library
- Xcelerator Academy Membership
- Learning Journey
- Standalone Certification Exam
- Optional

\*\*Virtual lab environment included in offer

+ Add-on v.Lab hours available for purchase

\*\*Virtual lab environment included in offer

# Complete Course List: NX Core Associate Certification




13 Chapters

LEARNING PATH

### NX Basic Design

In this learning path, you will explore methods for developing and editing basic solid models, assembly models, and drawings.




PREVIEW CHAPTER  
Getting started in NX

8 Chapters

LEARNING PATH

### Product Design Fundamentals

You will learn to determine a modeling strategy, resolve any failures that arise, and use workflows for copying, patterning, and mirroring to complete a model.



PREVIEW CHAPTER  
Establish design intent

7 Chapters

LEARNING PATH

### Molded & Cast Part Design

In this learning path, you will compare and contrast highly parametric vs. non-parametric modeling techniques.




PREVIEW CHAPTER  
Add stiffening ribs to a model!

6 Chapters

LEARNING PATH

### Loading and working with assemblies

Most products are assemblies of multiple parts. In this learning path, you will learn how to add components to an assembly and edit them to fit properly.



PREVIEW CHAPTER  
Create and replace reference sets

6 Chapters

LEARNING PATH

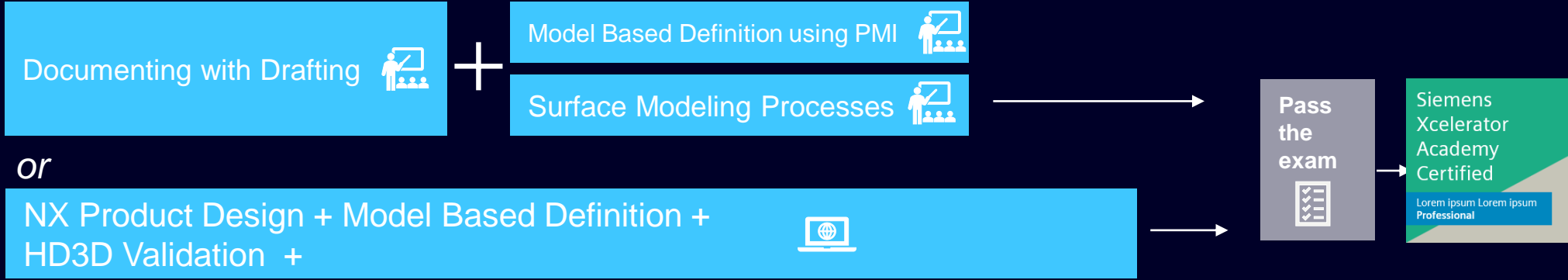
### Design in Context of an Assembly

In this learning path, you will learn to create associative links between parts in the context of an assembly.



PREVIEW CHAPTER  
Start a design using the top-down assembly method

# Complete Course List: NX Product Professional Certification




Pass the mandatory prerequisite NX Associate exam

9 Chapters

LEARNING PATH

**Documenting with Drafting - 2212**

Create standards-compliant detailed engineering drawings that are fully associated to your 3D model.



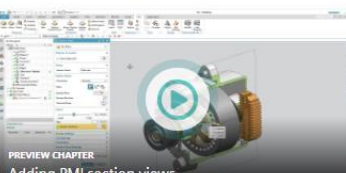
PREVIEW CHAPTER  
Create a drawing

13 Chapters

LEARNING PATH

**Model Based Definition using PMI - 2212**

Learn to add text, dimensions, GD&T, and symbols to a 3D model for use by downstream applications such as tooling, manufacturing, inspection, and shipping.



PREVIEW CHAPTER  
Adding PMI section views

16 Chapters X-LAB

NX

**NX Surface Modeling Processes - 2206**

Learn to create freeform parts that update reliably and shift smoothly to the manufacturing application.

version 2206 English [View Chapters](#)

5 Chapters

LEARNING PATH

**HD3D Tools and Validation - 2206**

Learn to use Visual Reports and Checkmate to analyze a model. Learn to use Design Optimization to improve the design of a model.



PREVIEW CHAPTER  
Activate and explore a visual report

1 Chapter X-LAB

NX

**Create curves as construction geometry**

Learn to create curves as construction geometry. You will also create points and point sets associative to curve geometry.

version 1980 English [View Chapters](#)

