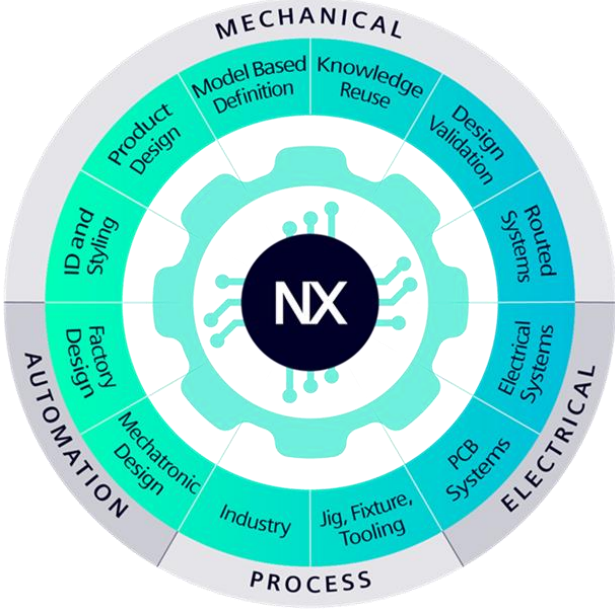# NX Design Learning Journeys

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Introduction

This set of Learning Journeys represents the available Learning Services offerings of Xcelerator Academy on the NX Design portfolio of products.
A Learning Journey maps out the available courses, their recommended order and lets you flexible choose how to consume it: as Instructor-led training (ILT or V-ILT) or as On-Demand Training (ODT).

If you already have access to an On-Demand Training (ODT) membership, you can use the links presented on the following slides.
If you are interested in purchasing the ODT membership, please click here.

NX Core

This Learning Journey is designed to give new users an overview of NX. Users will be able to open and explore part files.

Click here

Product Design

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

Click here

Routed Systems

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

Click here

Electrical Systems

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

Click here

Jig, Fixture, Tooling

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

Click here

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Learning Journey: NX Core (1/2)

This Learning Journey is designed to provide Mechanical Designers the foundation they need to be successful using NX Design.
Roles: Mechanical Designer
Level: Intermediate
Duration: 28.5 hours

NX Basic Design
10 chapters

Explore methods for developing and editing basic solid models, assembly models, and drawings.

ODT

Product Design Fundamentals
6 chapters

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

ODT

Designing Parts in NX
5 days

Create and edit parametric models using the essential NX processes. Learn how to create sketches to capture design intent, how to model a part efficiently, and how to assemble parts into product assemblies, and produce basic part drawings.

ILT001002

Molded & Cast Part Design
5 chapters

Compare and contrast highly parametric vs. non-parametric modeling techniques.

ODT

Loading and working with assemblies
4 chapters

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.

ODT

Design in Context of an Assembly
4 chapters

Learn to create associative links between parts in the context of an assembly.

ODT

Intermediate NX Design & Assemblies
5 days

Learn to build assembly structures and create parametric solid models that capture design intent.

ILT001003

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Learning Journey: NX Core (2/2)

NX Associate
Certification Level: Associate
Role: Mechanical Designer

Proceed with the next Learning Journey(s):
- Product Design
- Routed Systems or Electrical Systems
- Jig, Fixture, Tooling

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Learning Journey: Product Design

This Learning Journey is designed to provide Tooling Designers the foundation they need to be successful using NX Design.
Roles: Freeform Designer, Tooling Designer, Drafter, Sheet Metal Designer
Level: Intermediate
Duration: 19 hours (additional optional LPs 22.5 hours)

CAD Surface Modeling Processes — 14 chapters Learn to create freeform parts that update reliably and shift smoothly to the manufacturing application. ODT	**CAD Surface Modeling Processes** — 5 days Learn to create freeform parts that update reliably and shift smoothly to the manufacturing application. ILT001005
Documenting with Drafting (Optional) — 7 chapters Learn to create standards-compliant detailed engineering drawings that are fully associated to your 3D model. ODT	**Documenting with Drafting (Optional)** — 3 days Learn to create standards-compliant detailed engineering drawings that are fully associated to your 3D model. ILT001006

Advanced Assemblies (Optional) — 4 chapters
Learn to work with, manipulate, and analyze large assemblies.
ODT

Sheet Metal Design (Optional) — 7 chapters Create machinery, enclosures, etc. normally manufactured with a brake press. Create and build on base features with advanced features like gussets and louvers. ODT	**Sheet Metal Design (Optional)** — 2 days Create machinery, enclosures, etc. normally manufactured with a brake press. Create and build on base features with advanced features like gussets and louvers. ILT001007
Model Based Definition using PMI (Optional) — 10 chapters 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. ODT	**Model Based Definition using PMI (Optional)** — 1 day 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. ILT001014

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Learning Journey: Routed Systems

This Learning Journey is designed to provide Wiring Designers the foundation they need to be successful using NX Design.
Roles: Wiring Designer
Level: Intermediate
Duration: 19 hours / 4 days

Routing Mechanical

9 chapters

Define piping paths placed around and through assemblies. This is used to define systems that provide process piping, waste disposal, and structural support.

ODT

Advanced Assemblies

4 chapters

Learn to work with, manipulate, and analyze large assemblies.

ODT

SIEMENS

Learning Journey: Electrical Systems

This Learning Journey is designed to provide Wiring Designers the foundation they need to be successful using NX Design.
Roles: Wiring Designer
Level: Intermediate
Duration: 19 hours / 4 days

Routing Electrical

8 chapters

Learn to create connection & component lists, qualify parts for use in routing assemblies, place parts in wiring assemblies, and assign components & connectors

ODT

Advanced Assemblies

4 chapters

Learn to work with, manipulate, and analyze large assemblies.

ODT

Learning Journey: Jig, Fixture, Tooling

This Learning Journey is designed to provide Mold/Die Designers the foundation they need to be successful using NX Design.
Roles: Mold/Die Designer
Level: Intermediate
Duration: 22 hours / 11 days

Mold Wizard Fundamentals

8 chapters

Learners will acquire the skills to significantly reduce mold design lead time using Mold Wizard automation.

ODT

Progressive Die Wizard Fundamentals

9 chapters

Learn the essential skills necessary to significantly reduce die design lead time using Progressive Die Wizard process automation

ODT

Mold Wizard Advanced

5 days

Learn to customize the catalog libraries to match your company's standards, add new libraries, and configure various templates within the Mold Wizard application.

ILT001015

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