

Xcelerator Academy Learning Maps

Your learning: At a Glance

NX CAM Manufacturing

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 BASICS

Administrator

Interrogate an NX part that has been manufactured and machine a simple prismatic part.

LEARN ABOUT MANUFACTURING PARTS

Manufacturing Engineer & Tooling Designer

Manufacture prismatic, multi-axis, lathe parts, use NX for turbomachinery, Post Process NX CAM parts.

LEARN ABOUT LINE PLANNER & ROBOTICS

Line Planner & Machine/Robotics Programmer

Manufacture parts, set up a manufacturing line based on NX Line Planner, and use NX for Robotics.

GET CERTIFIED

NX CAM Manufacturing Engineer Associate Certification

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

LEARN THE BASICS

Administrator

- NX Basic Design
- Managing NC Programming Data
- Machining a Prismatic Part

Manufacturing Engineer

- Fixed and Multi axis
- Turbomachinery and other Multi-axis options

NX CAM Manufacturing Engineer Associate Certification

Siemens Xcelerator Academy Certified

NX CAM Manufacturing Engineer Associate 2022

[Click for detailed certification course list](#)

LEARN ABOUT MANUFACTURING PARTS

Manufacturing Engineer & Tooling Designer

- Turning Manufacturing
- Turning - Other Options
- Post Configurator

LEARN ABOUT LINE PLANNER & ROBOTICS

Line Planner & Machine/Robotics Programmer

- Line Designer - Native
- Line Designer - Teamcenter
- Other Manufacturing Options

Instructor-led training	On-demand training library	Xcelerator Academy Membership	Learning Journey	Standalone Certification Exam	Optional
**Virtual lab environment included in offer		Add-on vLab hours available for purchase	**Virtual lab environment included in offer		



Complete Course List: NX CAM Manufacturing Engineer Associate Certification

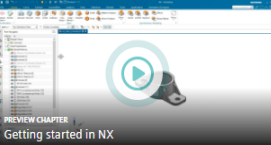
 Instructor-led training	 On-demand training library	 Xcelerator Academy Membership
**Virtual lab environment included in offer		 Add-on vLab hours available for purchase



11 Chapters

LEARNING PATH
NX Basic Design (Current)

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



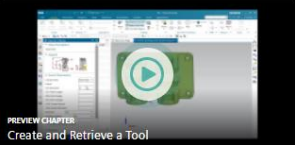
PREVIEW CHAPTER
 Getting started in NX

- NX User Interface
- Create a basic part
- Organize and display part models
- Create cylindrical parts using sketches
- Add Finishing Details
- Simple changes and part interrogation
- Basic part edits using synchronous
- Analyze existing assemblies
- Bottom-up assembly building
- Create a basic part drawing
- Using legacy sketch with NX 2007

9 Chapters

LEARNING PATH
Managing NC Programming Data

Review and change data and information used to manufacture parts. Also, begin milling a basic prismatic part.




PREVIEW CHAPTER
 Create and Retrieve a Tool

- Study Manufacturing process and create manufacturing setup
- Create and structure an NC program
- Examine a manufacturing part
- Create and structure NC documents

10 Chapters

LEARNING PATH
Machining a Prismatic Part

Use varying prismatic machining methods in milling and turning operations.



PREVIEW CHAPTER
 Define Coordinate Systems

- Cavity Milling
- Use Coordinate Systems in Manufacturing
- Visualize Tool Paths
- Non Cutting Moves
- Planar Milling
- Hole Making
- Fixed Axis Contouring
- Additional Prismatic Operation Types
- Using Additional Machining Functionality

7 Chapters

LEARNING PATH
Fixed-axis and Multi-axis Milling

You will learn the use of the NX Manufacturing application for creating fixed-axis and variable-axis tool paths.




PREVIEW CHAPTER
 Plunge milling

- Plunge milling and z-level milling
- Fixed-axis contouring
- 4 and 5-axis machining and 5-axis Z-level
- Variable Axis Contour Milling
- Profiling walls with a variable axis

9 Chapters

LEARNING PATH
Turbomachinery and other Multi-axis options

Program turbomachinery parts and learn other multi-axis options: non-cutting moves, hole machining, in process workpiece transfer and probing & generic motion.



PREVIEW CHAPTER
 Tool axis control in sequential milling

- Turbomachinery Milling
- Sequential Milling
- Associative Machining Geometry
- Hole Machining
- In process Workpiece transfer
- Probing and Generic Motion
- Projects

