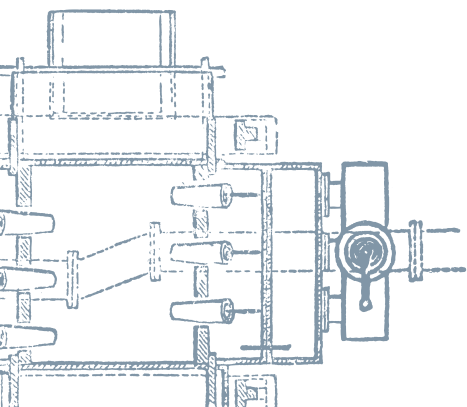


TRAINING COURSE CATALOG

CAM | CAD | PDM

We Make Manufacturing Smarter

Harness the Power of
Innovation with Siemens
PLM Training





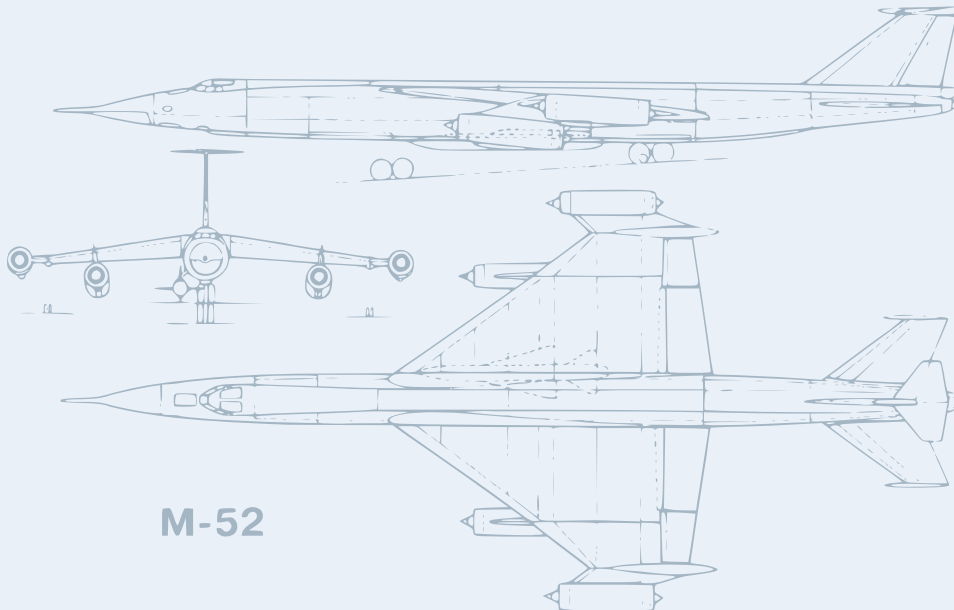
The Originators of Process-Based Training

The best training isn't always about tips and menu picks. We believe knowing every detail about a feature inside and out doesn't necessarily lead to a great aftermath for the user who's taking it back to the production process. That's why we take a different approach to getting you up to speed on your chosen Siemen's PLM Software program.

For nearly two decades, our dedicated team of instructors have emphasized process based training in their practice and have continued to change the way designers and manufacturers learn and leverage these tools.

We offer complete process-based training courses in product design, manufacturing, simulation, and product data management from our professionally trained team who bring best practices and practical industry experience to CAD/CAM/CAE/PLM users like you.

Whether you're a beginner or an advanced user, expect to go beyond the basics with our team - no matter which course you decide to take with us.



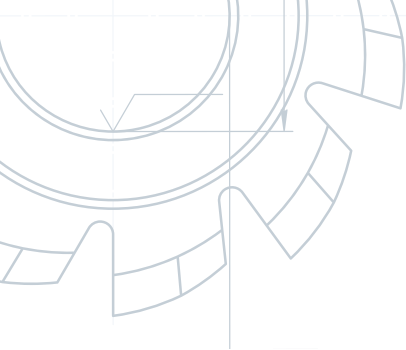


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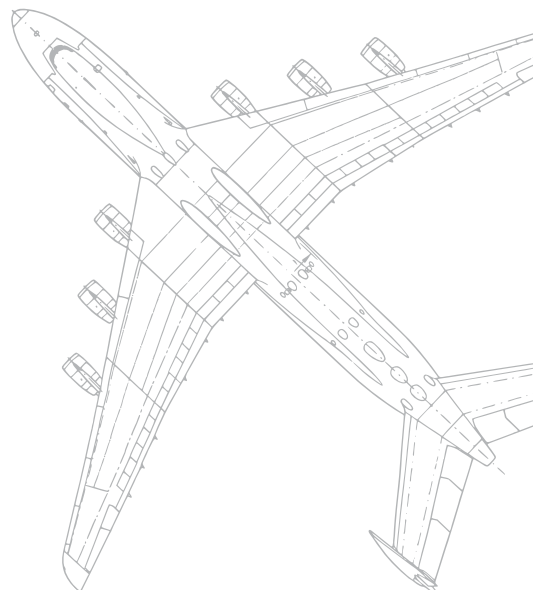
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“...excellent course materials...”

We recently contracted Swoosh to provide two 5 days courses at our site covering NX Accelerated CAD Training. We found the instructors to be very knowledgeable; the course materials were excellent and will provide valuable future reference; and the course topics were appropriate. Swoosh also proved to be a very cost effective solution for us. We are very pleased with the results and will strongly consider using their services for future training.



Your process makes the training difference

Our team gets it: tips and menu picks are cool to learn, but what value does it provide a design engineer or manufacturer other than trivial pursuit?

Our instructors come with hands-on experience in the field and offer engineers an in-depth look of the true benefits and capabilities of your chosen CAD, CAM, CAE, and PDM programs.

Instead of providing step-by-step instructions on how to use a feature, our instructors focus on how, why, and when a feature will benefit your everyday workflow.

WHAT MAKES OUR TRAINING DIFFERENT...

Process-Based

It's all about the bigger picture. We don't want you to just know *how to use* a feature. We want you to understand *how you can implement* a feature into your own process.

With our process-based training approach, we start with your desired outcome and focus on the necessary features and steps to get to your end goal:

An Overview with Objectives

- General overview replaced with objectives
- Starts with your desired outcome and focuses on necessary steps

Activity-Based

- Reinforces lecture based with supporting workbook
- Increases retention by process focus

Actionable Results

- Process-based creates superior product retention
- Time to focus on higher order applications
- Helps prevent slippage to older methods used previously



...THAN THE COMPETITORS?

v. Traditional-Based

Traditional-based training focuses on the clicks and menu picks of functions and commands. Whether or not it is an essential feature to your workflow, time is spent focused on every aspect of a command.

This dated approach does not allow for easy knowledge transfer or the development of best practices with NX, as the process is not defined:

An Overview of the Complete Software Tool

- General overview of features and out of scope areas
- Too much information to cover

Feature Options

- Dig deep into features and its capabilities and hope to find a good fit for it to be used
- No actual applications to reinforce with feature knowledge

Menu Selections

- Commands, menu picks, and syntax of individual functions
- No application to a process

The value of training your manufacturers

A solid training plan is essential to the success of your productivity.

Trained software users can take full advantage of the programs and features at their fingertips - allowing them to complete tasks more effectively and efficiently.

Proper training saves time and money

Users trained correctly avoid making repeated mistakes. This saves time adjusting or reworking errors.

Every company is unique. That's why we offer customized training courses suited to your specific needs for users of all levels in numerous Siemens PLM Software platforms - assuring your users are instructed on your products.

“...a boost in our production.”

The training provided by Swoosh was a tremendous boost in our production. By being able to now utilize all of the new functionality improvements that NX offers, we have reduced design time by 15% in most cases.



4 REASONS WHY Investing in Training

IS A MUST FOR YOUR COMPANY'S RETURN ON INVESTMENT

When working with complex software, obstacles are guaranteed to rise. Proper training helps prepare your users in tackling the challenges face and work around these issues, while ultimately finding a solution to better your process.

Our team of instructors tailor each training course to aid users of all levels in numerous Siemens PLM Software platforms and can assure your CAD/CAM/CAE/PLM users are instructed on your products.



Enhance Company Profits

Based on trainings of 575 companies during a 3-year period, researchers found that manufacturers investing the most in training yielded 36% total shareholder return compared to 25% weighted return for the S&P 500 index of the same period.



Save Administrative Time & Costs

The less time a manager has to spend on monitoring and guiding employees, the more time is freed up for more profitable activities. Provide peace of mind knowing that duplication efforts and time spent correct mistakes are out of the hands of managers.



Improve Employee Performance

Performance problems occur due to employee confusion on what, how, and why to do something in the production process. Without proper training, companies are more than three times likely to lose their best employees.



Keep Your Competitive Advantage

Companies must recognize that not only is the human capital of their employees a major asset, it is also a depreciating asset that needs continuing investment. Keeping worker skills updated keeps a company in the running.

How will you train with us?

**“..best CAD training
ever attended.”**

I attended NX Sheetmetal and Freeform class. It was the best CAD training that I have attended. The manual supplied by Swoosh Technologies was excellent, a great teaching and reference aid. My instructor explained concepts in an organized and easy-to-follow pace, and he answered questions very clearly and was to understand. I highly recommend that we use Swoosh Technologies for training.

molex

In the Classroom

Join our certified instructor in a classroom-based environment near you. No matter the class you choose from our online training schedule, expect the tools you need to excel to the next level with your software.

Virtual Student

Can't make the classroom? We offer online training during our scheduled classroom training. You'll have full access to the course and get the training needed from our expert instructor.

See You Onsite

Our educational services can be delivered at your location. We also provide the necessary training equipment for your group at no additional cost.

1:1 Mentor

Get one on one training with one of our knowledgeable instructors. Our team is always here to help guide you with solutions proven to push your productivity.

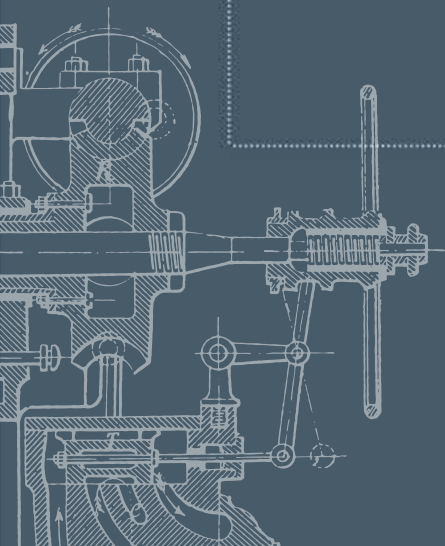
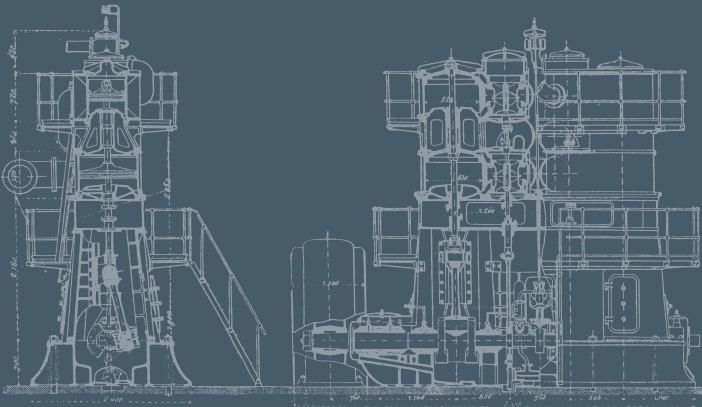
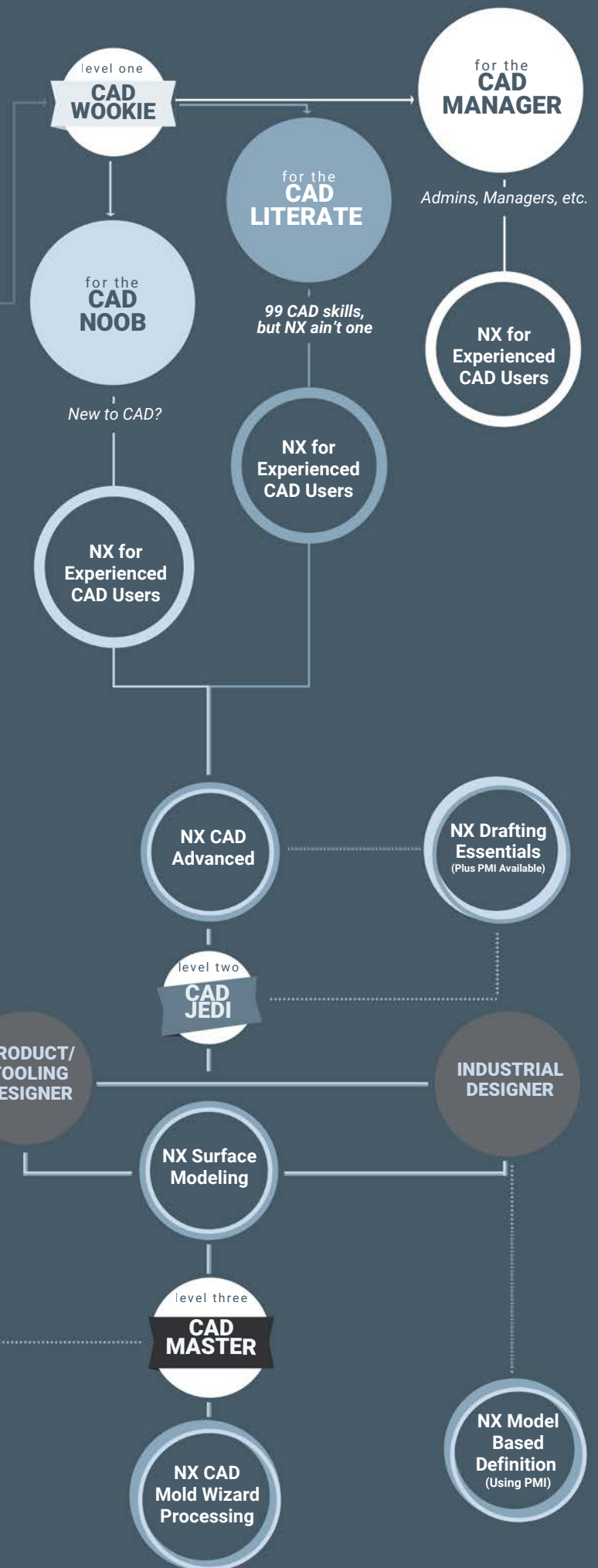


NX DESIGN

WHERE DO I START?

Map out your learning trail to become a master NX CAD user.

... indicates optional courses for existing learning trails.





NX Design Training Classes:

NX for Experienced CAD Users(TR10300)

5-Day Class

This class will dive into essential areas of NX CAD software covering a wide range of topics such as creating 3D parametric models, assembly structures, and detail drafting.

Topics:

- Introduction to NX
- Sketching
- Feature Modeling
- Datum Features
- Design Features
- Detail Features
- Assemblies
- Design in Context
- Synchronous Modeling
- Drafting

Prerequisites:

- None

NX CAD Advanced (TR10250)

3-Day Class

This course is intended for experienced, proficient users of NX and covers more advanced areas of NX CAD applications. Course competencies include building upon the skill set of existing NX users and establishing advanced practices for designing parts and building assemblies common to customer business processes. For some topics, advanced NX license bundles are required.

Topics:

- Data Exchange
- Advanced Curve Modeling
- Design Reuse
- Assembly Documentation
- Expressions
- Measure Tool
- Data Validation

Prerequisites:

- NX for Experienced CAD Users (TR10300) **and**
- Minimum 80 hours of parametric, feature-based modeling and assemblies practice.

NX Surface Modeling (TR10265)*

3-Day Class

This course is intended to raise user awareness of NX free form (surface) modeling capabilities. Users will learn to apply advanced NX functionality to achieve non-analytical shapes in this NX surface modeling course. Users will gain proficiency in parametric surface modeling and insight into integrating aesthetic elements into 3D models. Since surface modeling is often dependent on curve profiles and paths, advanced curves are included.

* The NX Surface Modeling course is designed for customers who want to learn the functionality included in the Freeform 1, Freeform 2 and Shape Studio licenses. Several options in this course required high-end NX CAD licenses like Mach2 and Mach3.

Topics:

- Freeform Overview
- Advanced Curve Operations
- Creating and Editing Spines
- Mesh Features
- Surface Operations
- Sweep Features
- Blending

Prerequisites:

- NX for Experienced CAD Users (TR10300) **and**
- Minimum 80 hours of parametric, feature-based modeling

NX Drafting Essentials (TR10450)

3-Day Class

This course is intended for new CAD users and covers the essentials and differences between 3D model space and 2D drawing sheet. Students will learn to create technical drawings using NX functionalities, including dimensions, tables, exploded views, and extensive PMI.

Topics:

- Introduction to NX
- Drawing Prep
- Drawing Sheets and Views
- Legacy Drawings and 2D Drafting
- Drafting Symbols, Dimensions, and Annotations
- Assembly Documentation
- PMI

Prerequisites:

- None



NX Design Training Classes:

NX Sheet Metal (TR10550)

2-Day Class

This course is intended for experienced NX users and covers a comprehensive exposure to the Sheet Metal application. The intent is to expand the current skill set of users by adding the common production design processes for the NX Sheet Metal application and establish efficient practices for designing parts fabricated from sheet metal or other similar laminar materials.

Topics:

- Introduction to NX Sheet Metal
- Setting Sheet Metal Preferences
- Converting Models into Sheet Metal Models
- Tab and Flange Features
- Unbending and Rebending Features
- Creating Corner and Bend Taper Configurations
- Creating Punch-type and Deformable Cutouts
- Resizing Features
- Advanced Flanges
- Creating Flat Patterns and Solids
- Drafting Tools
- Establishing Sheet Metal Standards

Prerequisites:

- NX for Experienced CAD Users (TR10300) or NX CAD Advanced (TR10250) and
- Experience with NX user interface, NX part file format, basic feature modeling, sketching and assemblies.
 - Recommended minimum of 80 hours of experience using NX.

NX Model Based Definition Using PMI (TR10910)

2-Day Class

The goal of this class is to provide skills needed to view, create and edit Product and Manufacturing Information (PMI) in NX CAD. This course is intended for students that have experience with NX and are familiar with its user interface.

Topics:

- Introduction to NX PMI
- Creating and Using Views for PMI
- Creating and Editing PMI Dimensions-Annotations
- Adding Supplemental Geometry
- Referencing PMI in Assemblies
- Creating PMI Section Views
- Re-use Feature Data to Automate PMI
- Interrogating and Validating PMI
- Introduction using PMI in Downstream Applications

Prerequisites:

- Fundamental Knowledge of NX Modeling, Assemblies and Drafting Applications

NX CAD Update (TR10800)

2 - 4 Day Class (Dependent on NX version)

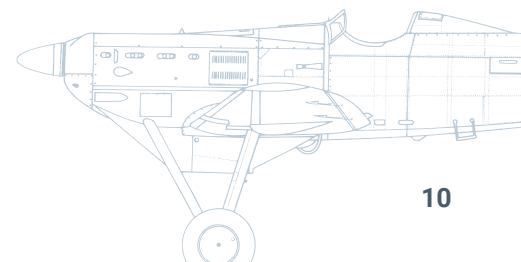
With combinations ranging from the earliest versions of NX to the latest release, veteran NX users can easily transition to a later NX software version. Course content varies and is dependent on NX software version from which user is transitioning to. Most facet of CAD application are revealed, including customization and configuration concepts, premier assembly techniques, and industry-wide CAD drafting procedures.

Topics:

- Gateway and Visualization
- Sketching
- Feature Modeling
- Assemblies
- Advanced Curve Modeling
- Surface Modeling
- Synchronous Modeling
- Drafting

Prerequisites:

- Knowledge of previous NX CAD version is required.





NX Design Training Classes:

NX
CAD

AVAILABLE UPON REQUEST:

NX CAD Mold Wizard Processing (TR10900)

5-Day Class

Learn to reduce mold design lead time using Mold Wizard automation. A predominant amount of NX Mold Wizard functionality is taught from the beginning stages of part and flow analysis to drafting essentials, including all of the major systems within an operating mold such as ejection, cooling, slides and lifter, and simulation.

AVAILABLE UPON REQUEST:

NX Modeling with Electrical Routing (TR10700)

2-Day Class

Create fully associative electrical routed system models with NX and learn how to utilize tools used to quickly qualify and place standard parts, define wiring and harness paths around/through NX assemblies, and assign stock to paths.

NX FOR EXPERIENCED CAD USERS

“ ...instructor answered questions and demonstrated in a thorough manner... ”

I come from 10 years of Solidworks experience. So, my favorite part of the class was learning how to accomplish common design, modeling, and drawing techniques in NX that I would typically use in Solidworks. The instructor did a very good job of addressing and answering my specific questions related to this. I found it very helpful to see my questions answered and demonstrated in a thorough manner by the instructor.



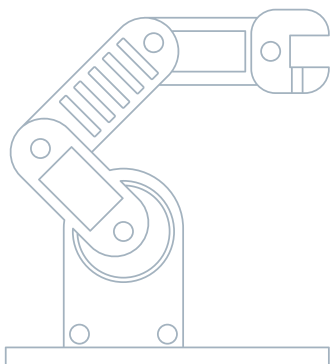
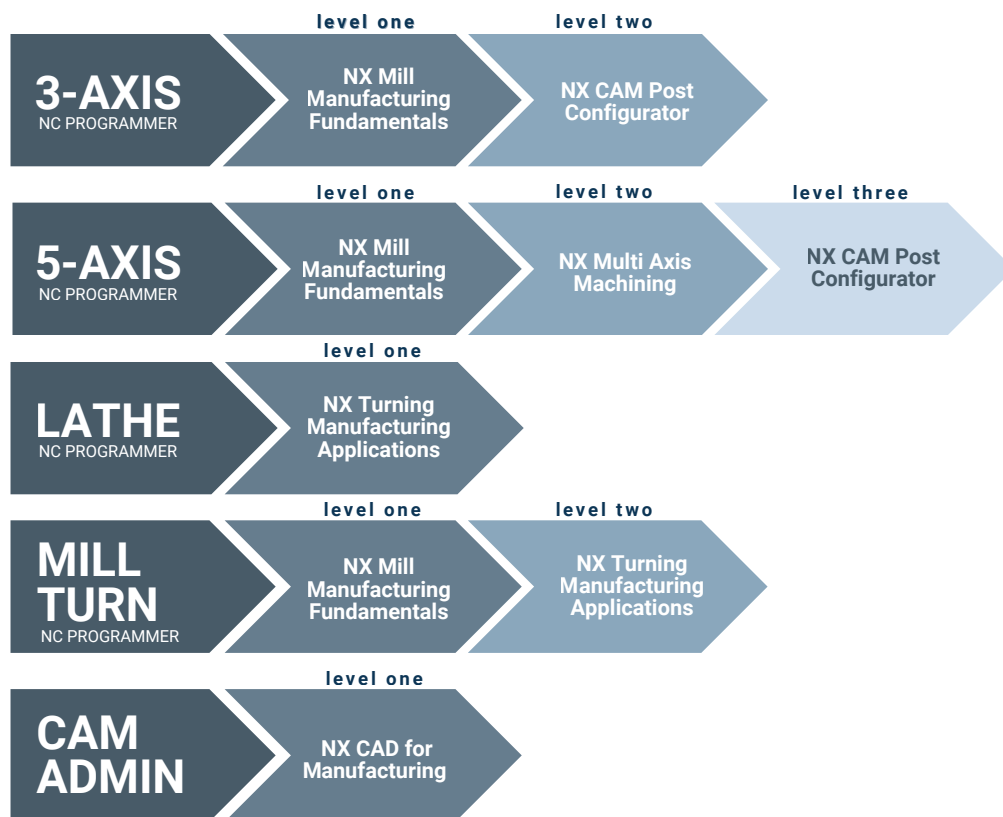
NX MANUFACTURING

WHERE DO I START?

Make it an easy journey with our bar chart.

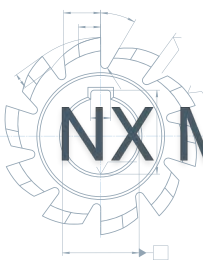
Map out your learning trail to become a proficient NX CAM user.

WHAT KIND OF PROGRAMMER ARE YOU?



“...producing programs confidently...”

I have been struggling for a while with NX. I had no previous experience with CAM software and was to the point of looking for other work because I couldn't wrap my head around the software. Upon completion of this class, I was actually eager to get back to work to apply the skills I had learned. I am now producing programs confidently using the software.



NX Manufacturing Training Classes:

NX Milling Manufacturing Fundamentals (TR20300)

4-Day Class

NC programmers new to NX CAM will accelerate in understanding how to create tool paths for 2 and 3 axis milling/drilling centers in NX, cutting and non-cutting motions, and the creation and post processing of NX operations. Upon completion, user will have the capability to create/modify output verified 3 axis NC programs for milling machines.

Topics:

- Manufacturing User Interface
- Machine Coordinate Systems
- Model Concepts for Manufacturing Tools
- Face Milling Visualization of Tool Paths
- Planar Milling Operations
- Z-Level Milling
- IPW and Rest
- Libraries
- Post Processing and Shop Documentation

Prerequisites:

- NX for Experienced CAD Users (TR10300) **and**
- Thorough understanding of NC/CNC programming principles

NX Manufacturing Customization (TR20500)

3-Day Class

Become proficient with CAM customization options and automation to significantly decrease time spent creating tool paths. Learn how to add new cutting tools, cutting tool materials, part libraries, acquire new methods to creating new template field files, configure NX output for shop documentation, and automating FBM.

Topics:

- Machining Methods
- Cutting Tool Libraries
- Machining Data
- Feature Based Machining (FBM)
- Shop Documentation Custom Output
- Integrated Simulation and Verification
- Manufacturing Wizards

Prerequisites:

- NX Milling Manufacturing Fundamentals (TR20300)

NX Multi Axis Machining (TR20350)

2-Day Class

This course provides essential training for individuals who are responsible for developing complex 4 and 5 axis programs. Upon completion, accomplished NC programmers will have the capability to create and modify 4 and 5-axis operations for complex machines. Knowledge of NX CAM 3-axis operations is required.

Topics:

- 5 axis Z-Level
- Variable Axis Contour Milling
- Profiling Walls with a Variable Tool Axis
- Advanced Non-Cutting Moves
- Wave Geometry Linker in Manufacturing
- Re-fixturing and the In-Process Workpiece
- Optimize to Drive Methods

Prerequisites:

- NX Milling Manufacturing Fundamentals (TR20300)
- Knowledge of manual NC/CNC programming methods and machinery; and a thorough understanding of NC/CNC programming principles.
- Windows operating system literacy

NX Turning Manufacturing Applications (TR20550)

3-Day Class

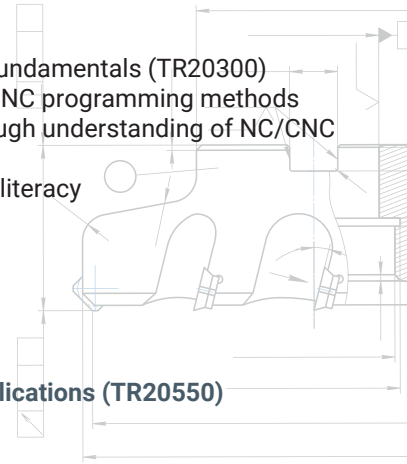
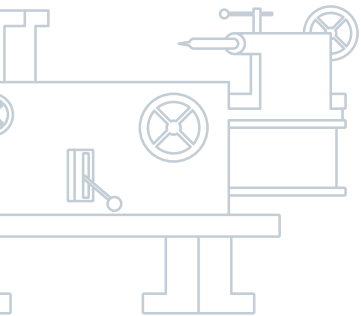
This course is intended to provide users an understanding of NX CAM Turning functionality. The class will introduce new features, commands, and enhancements. Lecture will be reinforced with exercises to help transfer learning to part programming and manufacturing.

Topics:

- Intro to Turning
- Defining Part and Blank Geometry
- Creating Perishable Tooling Requirements
- Facing Operations
- Roughness Operations OD and ID
- Finish Turning OD and ID
- Centerline Drilling Operations
- Threading Operations
- Grooving Operations
- Verification of Operations
- Multiple Spindle Machines
- Posting and Shop Documentation

Prerequisites:

- NX Milling Manufacturing Fundamentals (TR20300)





NX Manufacturing Training Classes:

NX Mill/Turn Manufacturing (TR20600)

2-Day Class

The goal of this intermediate level class is to provide skills needed to efficiently and effectively program Mill/Turn type machines in NX CAM. This course is intended for students that have experience with NX and are familiar with its user interface.

Topics:

- Machine Geometry
- Turning Operations
- Facing, Turning, Boring, Threading, Centerline
- Milling Operations, Planar, Contour, Rotary, Multi-Axis
- Holmaking Operations, In Process Work Piece Transfers - Part Flip and Transfer to Sub Spindle
- Post Processor Requirements
- Mill/Turn Projects -
 - Users will complete two projects

Prerequisites:

- Fundamental knowledge of NX Modeling and Manufacturing Applications

NX CAD for Manufacturing (TR20800)

3-Day Class

This course is intended for NX CAM users who often require the creation of additional geometry to machine a part feature. The primary areas of CAD are covered, including CAD environment, sketching, basic modeling, base curves, fixture assemblies, simple patterns, and drafting for documentation.

Topics:

- CAD Environment
- Sketching
- Basic Modeling
- Base Curves
- Fixture Assemblies
- Simple Patterns
- Drafting for Documentation

Prerequisites:

- NX for Experienced CAD Users (TR10300)
- Thorough understanding of NC/CNC programming principles

NX CAM Post Configurator (TR20700)

4-Day Class

The goal of this class is to provide skills needed to create and edit Post Processors in NX CAM. This course is intended for students that have experience with NX and are familiar with machine tools.

Topics:

- Preparing Your Custom Environment
- Introduction to Post Configurator
- Post Configurator Licensing Explained
- Settings and Formats
- Definition Editor
- Layers in Post Configurator, Buffers in Post Configurator
- TCL Programming Basics
- Custom Settings and User Interface
- Property Access
- Creation of a Mill/Turn Post Processor with B-Axis & Sub-spindle

Prerequisites:

- Fundamental knowledge of NX Manufacturing, Machine Tools/Controls, and G & M code.

NX Manufacturing Update (TR20900)

2-Day Class

This course provides targeted CAM training for users who are updating their NX CAM software to a newer version. Knowledge of previous NX CAM version is required.

Upon completion, accomplished NC programmers will have the knowledge and skills to use the newest technologies in NX CAM. The pace and topics of this course have been carefully planned specifically for the experienced NC programmer.

Topics:

- Manufacturing - General
 - (Dependent on NX latest release)
- Milling
- Turning
- Thread Milling
- Feature Editing
- Feature Based Machining
- Integrated Simulation and Verification
- Synchronous Technology

Prerequisites:

- Knowledge of previous NX CAM version is required.



NX Manufacturing Training Classes:

NX
CAM

NX CAM Feature Based Machining (TR20950)

2-Day Class

This course provides essential training for individuals who are responsible for authoring and implementing machining rules that are applied when automatically creating feature processes. Upon completion of this course, students will have the capability to create and modify rules in the Machining Knowledge Library using Teach Operation Sets and FBM Configurator.

Topics:

- Introduction to FBM
- FBM Environment
- Automated Setup Templates
- Machining Knowledge Library
- Defining Best Machining Practices
- Machining Rules
- Machining Feature Navigator
- Feature Recognition
- Machining Data Library
- Teach Operation Set
- Teach Feature Mapping
- Operation Parameter Add-ons

Prerequisites:

- TR20300 - NX Milling Manufacturing Fundamentals Course (TR20300) a thorough understanding of manual NC/CNC programming principles; basic understanding of XML and dot (.) notation syntax; Windows operating system literacy is a must. Thorough understanding of NC/CNC programming principles

AVAILABLE UPON REQUEST:

NX Wire EDM Advanced (TR20850)

3-Day Class

This course is intended for NX CAM users looking to utilize the Wire EDM Advanced module in NX to program their Wire EDM machine tools in an efficient and safe manner.

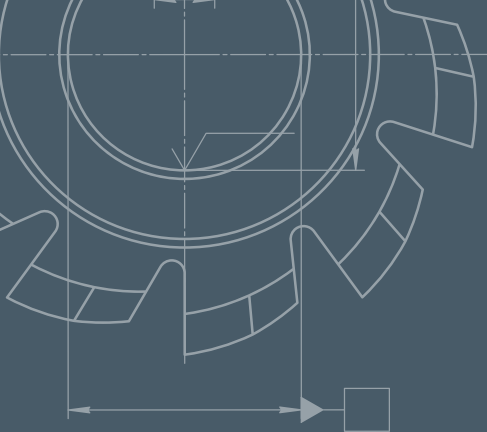
This class is intended for all Wire EDM programmers, regardless of their experience level in NX.

NX MULTI AXIS MACHINING

“...have the best materials...”

My favorite thing about the class is the curriculum that Swoosh puts together. You guys always have the best materials and do a great job developing classroom material. I absolutely love getting the opportunities to take part in your classes.





“...putting users at ease...”

They trained AutoCAD users for the changes in our PDM environment in the past and are contracted for our upcoming upgrade. Their training put our users at ease and greatly reduced the downtime associated when a new version is implemented. The outcome of the previous training was so successful that when our current upgrade was scheduled, the customer specifically requested Swoosh do the training of the new version based on past performance.

-Autocar

TEAMCENTER

With projects becoming more complex and product manufacturing becoming more advanced, an efficient product data management system is an essential part of today's business world.

Discover the power of Teamcenter - a solution to help you manage all aspects of product data management from design development to product retirement. Software that is a modern, adaptable product lifecycle management (PLM) system that connects people and processes, across functional silos, with a digital thread for innovation.

No matter how you choose to deploy Teamcenter, whether it be on-premises, on-cloud, or SaaS delivered via Teamcenter X, you get the same proven solutions designed to help you innovate faster.

What You Can Expect With Teamcenter:

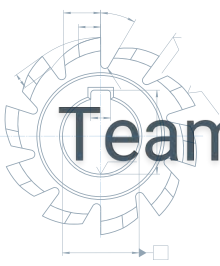
- Increased productivity by having the right information at the right time
- Optimized internal processes for faster to-market-time and increased revenue
- Reduced workflow errors and project costs
- Automated change processes that allow for more efficient collaboration

Helping you solve the tough challenges...

The unmatched breadth and depth of the Teamcenter portfolio means that you can solve more of the tough challenges required to develop highly successful products. With the easy, intuitive Teamcenter user interface, people across the organization can take part in the product development process more easily than ever before.

Extending your investment...

Our team of PLM architects offer a proven track record in assisting a wide range of companies install, configure, automate and bridge the product data gap across departments. We strive to extend your investment with our array of Teamcenter services and ensure that your environment is up and running.



Teamcenter Training Classes:

Teamcenter User Training (TC40300)

3-Day Class

This course is intended to provide fundamental skills for working in the rich client interface and the basics of using a suite of Teamcenter software applications. These software applications include My Teamcenter, Structure Manager, Teamcenter for lifecycle visualization embedded viewer, and Workflow Viewer.

Topics:

- Review Teamcenter Terms and Concepts
- Overview of Rich Client and Web Client Interface
- Performing Searches, View 2D and 3D Data, and Perform Markups
- Create New Teamcenter Items
- View, build, and edit product structure
- Perform Workflow Tasks and Track Process
- Create and Edit Teamcenter Objects
- Create and Edit Data Using Microsoft Office Integration (*available upon request*)
- Using CAD Integrations with Teamcenter (Solid Edge, NX, SolidWorks, Pro E, Autocad, Catia)

Prerequisites:

- None

Teamcenter Installation (TC40400)

5-Day Class

This course defines the two-tier and the four-tier architectures and demonstrates how to install the components of these architectures. This includes database server, corporate server, two-tier rich client, the Business Modeler IDE, web application server, web tier, server manager, thin client, four-tier rich client, the embedded viewer, and NX Manager.

Topics:

- Overview of Two-Tier and Four-Tier Architectures
- Teamcenter Database Creation (Oracle, MSSQL, Server, DB2)
- Common Licensing Server
- Corporate Server Installation
- File Management System (FMS) Overview
- Two-Tier Rich Client Installation
- Teamcenter .NET Web / J2EE Web Tier and Server Manager
- Installation of the Four-Tier Rich Client - Silent
- Installation of the Business Modeler IDE
- Administering the In-Production System
- FCS Performance Cache Server
- Teamcenter Integrations for Microsoft Office
- Embedded Visualization for the Four-Tier Rich Clients
- NX Manager for the Four-Tier Rich Clients

Prerequisites:

- None

Teamcenter Application & Data Model Administration (TC40350)

4-Day Class

Obtain the fundamental skills for configuring and maintaining a standard organizational Teamcenter environment. The application administration and system administration areas are both addressed in order to provide data security.

Topics:

- User Organization of Groups and Roles
- CAD Administration
- Access Manager
- Workflow Design
- Introduction to Business Modeler IDE Process
- Business Rules
- Options, Constraints, and Rules
- Teamcenter System Maintenance
- Applying Software Updates
- Data Security

Prerequisites:

- Teamcenter User Training (TC40300)

Teamcenter Workflow Design (TC40500)

2-Day Class

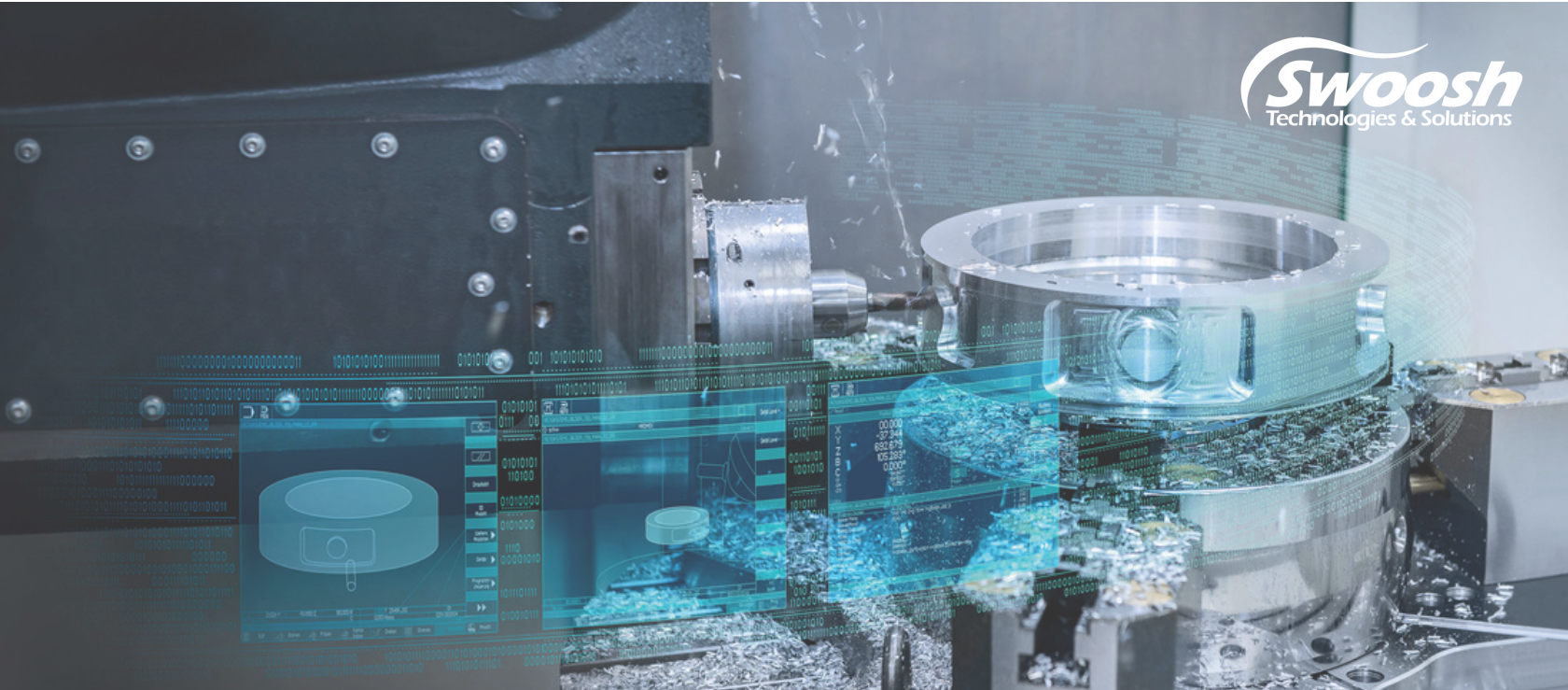
Gain skills necessary for creating, testing, and deploying Workflow templates for Process Management in Teamcenter. This course give a further in-depth look on how things interact. Users must have a good working knowledge of their system and have passed the prerequisites.

Topics:

- Workflow Concepts - Dev/Test/Product Environments,
- Terms and Definitions, Process Templates, Lifecycle Status
- Using Action and Rule Handlers
- Process and Task ACLs
- Exporting and Importing Workflow Templates
- Controlling Access to Workflows Using Filters
- Executing Workflows - Task Actions, Terminating
- Workflows, Auditing
- Integrating Workflow with Schedule Manager

Prerequisites:

- Teamcenter Application and Data Model Administration (TC40350)
- Basic Administration Skills



Experience our process-based training courses

PLM MADE EASY:

We deliver complete product training for **NX CAD, NX CAM, and Teamcenter**. Training sessions are offered at a classroom location, online, or onsite. Developed in-house, courseware is targeted specifically for your design and manufacturing process.

Our instructors offer years of industry experience as well as an impressive background in PLM capabilities. With process-based solutions that keep engineers well versed and equipped in design, manufacturing, and product deliverability, we make it a priority to help users better anticipate and improve product traceability and compliance efforts.

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