

NX CAD	CAD APPS
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> NX CAD Fundamental Processes

GENERAL INFORMATION

Software / Version: NX 12.0

Language: Material English/ Course Spanish

User Level: Beginner

Training Center duration:5 Days

Prerequisites: None

Fundamental Processes, an exclusive offering by the Siemens Training team, covers the essential NX task-based processes that new users will utilize when creating and editing parametric parts. The real-world experience of the Siemens instructors aids students in transferring knowledge gained through this single course to their job resulting in faster time to productivity.

At the completion of the Fundamental Processes class, the student will be able to develop parametric solid and assembly models as well as drawings using the master model concept. These concepts can be applied in the real world of product development and collaboration. As with each course developed and taught by Siemens PLM Software professionals, this class reinforces our in-depth knowledge of the software's capabilities and instructs the students based on the underlying principles incorporated within the NX product suite.

This class was designed to increase the productivity of the student, teaching the necessary skills to accomplish the following:

- Open and examine NX models
- Create and edit parametric part models
- Create and modify basic assembly structures
- Modify imported model data
- Create and modify basic drawings

> NX CAD FastStart for experienced 3D

GENERAL INFORMATION

Software / Version: NX 12.0

Language: Material English/ Course Spanish

User Level: Beginner to Intermediate

Training Center duration:5 Days

Prerequisites: Working knowledge of parametric modeling

At the completion of the FastStart for Experienced 3D CAD Users class, the student will be able to develop parametric solid and assembly models as well as drawings using the master model concept. These concepts can be applied in the real world of product development and collaboration. As with each course developed and taught by Siemens PLM Software professionals, this class reinforces our in-depth knowledge of the software's capabilities and instructs the students based on the underlying principles incorporated within the NX product suite.

This class was designed to increase the productivity of the student, teaching the necessary skills to accomplish the following:

- Open and examine NX models
- Create and edit parametric part models
- Create and modify assembly structures
- Establish interpart modeling relationships within an assembly structure
- Translate and modify non-parametric model data
- Build assembly configurations using arrangements
- Create and modify basic drawings

> Synchronous Modeling and Parametric Design

GENERAL INFORMATION

Software / Version: NX 12.0

Language: Material English/ Course Spanish

User Level: Intermediate to Advanced

Training Center duration: 3 Days

Prerequisites: CAD Fundamental Processes

Student needs to have these concepts: Design in NX

Working knowledge of sketching and assemblies.

At the completion of the FastStart for Experienced 3D CAD Users class, the student will be able to develop parametric solid and assembly models as well as drawings using the master model concept. These concepts can be applied in the real world of product development and collaboration. As with each course developed and taught by Siemens PLM Software professionals, this class reinforces our in-depth knowledge of the software's capabilities and instructs the students based on the underlying principles incorporated within the NX product suite.

> CAD Surface Modeling Processes

GENERAL INFORMATION

Software / Version: NX 12.0

Language: Material English/ Course Spanish

User Level: Intermediate to Advanced

Training Center duration: 3 Days

Prerequisites: CAD Fundamental Processes

CAD FastStart for Experienced 3D CAD users

Other recommendations:

NX domain knowledge

NX modeling and sketching

At the completion of the Surface Modeling Processes class, the student will be able to incorporate freeform features into any part, from product models to complex engineering designs. This task-based process course focuses the student on productive surface modeling techniques that capture design intent. These concepts can be applied in the real world of product development and collaboration. As with each course developed and taught by Siemens PLM Software professionals, this class reinforces our in-depth knowledge of the software's capabilities and instructs the students based on the underlying principles incorporated within the NX product suite.

This class was designed to increase the productivity of the student, teaching the necessary skills to accomplish the following:

- Create splines and derived curves used in creating freeform features.
- Analyze curves and faces.
- Build primary surfaces using curves.
- Create freeform shapes by sweeping sections along curves.
- Create transition and blend shapes.
- Extend and offset surface geometry.
- Convert surfaces into solid models.
- Add draft to molded and cast part models.
- Deform parts using Global Shaping.



> Drafting Essentials

GENERAL INFORMATION

Software / Version: NX 12.0

Language: Material English/ Course Spanish

User Level: Intermediate

Training Center duration: 3 Days

Prerequisites: NX CAD Fundamental Processes or

Other requirements:

Fundamental knowledge of modeling concepts, including the use of expressions, PMI, and part attributes.

Advanced knowledge of assembly concepts, including the master model concept, assembly load options, exploded views, and arrangements.

General drafting skills. Students do not need to be exposed to the Drafting environment prior to taking the Drafting Essentials course, since this course includes a comprehensive look at the NX drafting environment.

Learn how to use the NX Drafting application to create standards-compliant detailed engineering drawings that are fully associated to your 3D model.

You will configure all drafting preferences using a preset standards file, create multi-sheet drawings with base and derived views, place associated dimensions and annotations on the drawing, and customize the drawing with view-dependent geometry and style changes.

You will also explore techniques for working with assemblies and Product and Manufacturing Information (PMI).

This class was designed to increase the productivity of the student, teaching the necessary skills to accomplish the following:

- Create and maintain drawing sheets and views.
- Create and manage derived views, such as section and detail views, and their view boundaries.
- Create view dependent geometry.
- Create and edit symbols, dimensions and annotations.
- Apply unique display methods to views in assembly drawings.
- Generate an assembly parts list.



> CAD Large Assemblies Management

GENERAL INFORMATION

Software / Version: NX 12.0

Language: Material English/ Course Spanish

User Level: Intermediate to Advanced

Price may not include taxes applicable to your billing region

Training Center duration:3 Days

Prerequisites: CAD Fundamental Processes

The Large Assemblies Management course, an exclusive offering by the Siemens US Training team, covers cloning, sequencing, assembly cut, arrangements, reference sets, component grouping, representations, and weight management. The course includes Advance Assemblies license functions in addition to standard design functions in the NX software.

> NX Sheet Metal

GENERAL INFORMATION

Software / Version: NX 12.0

Language: Material English/ Course Spanish

User Level: Intermediate

Training Center duration: 2 Days

Prerequisites: NX CAD Fundamentals Processes

Working knowledge of:

Sketch Fundamentals

Basic sheet metal design

200 hours of experience with NX Modeling after course prerequisites.

Learn how to use the Sheet Metal application for creating machinery, enclosures, brackets, and other parts normally manufactured with a brake press. You will learn how to create base features like tabs and contour flanges, and build on them with more advanced features such as gussets and louvers.

You will also learn about Advanced Sheet Metal and Aerospace Sheet Metal commands.

> CAD Mold Wizard Fundamental Processes

GENERAL INFORMATION

Software / Version: NX 12.0

Language: Material English/ Course Spanish

User Level: Intermediate to Advanced

Training Center duration: 3 Days

Prerequisites: CAD FastStart for Experienced 3D CAD Users Or

Other requirements:

Have a basic understanding of plastic injection mold design

Other recommendations:

Working knowledge of NX Assemblies and interpart modeling

CAD Surface Modeling Processes.

Through the Mold Wizard Fundamental Processes course, an exclusive offering by the Siemens US Training team, expert NX tool designers will acquire the skills to significantly reduce mold design lead time using Mold Wizard automation. The curriculum mimics common tasks used in mold construction and is reinforced using hands-on activities.

> CAD Mold Wizard Advanced Processes

GENERAL INFORMATION

Software / Version: NX 11.0

Language: Material English/ Course Spanish

User Level: Advanced

Price may not include taxes applicable to your billing region

Training Center duration: 3 Days

Prerequisites: CAD Mold Wizard Fundamental Processes

Other recommended courses:

CAD Surface Modeling Processes

The Mold Wizard Advanced Processes course, an exclusive offering by the Siemens US Training team, is designed to advance students further up the productivity curve. As a second tier course, this advanced course builds upon the tools you deployed as a result of attending the Mold Wizard Fundamental Processes course. Expert NX tool designers will acquire the skills to significantly reduce mold design lead time using Mold Wizard automation. This course will also focus on customizing the existing catalog libraries to match your company's standards, adding new libraries, and configuring various templates within the Mold Wizard application. The curriculum mimics common tasks used in mold construction and is reinforced using hands-on activities.

> CAD Progressive Die Wizard Processes

GENERAL INFORMATION

Software / Version: NX 12.0

Language: Material English/ Course Spanish

User Level: Intermediate to Advanced

Training Center duration:5 Days

Prerequisites: CAD FastStart for Experienced 3D CAD Users

Other recommendations:

It would be helpful to take the NX Sheet Metal course, but it is not required

Understand these concepts: modeling in NX, and NX assembly concepts.

Have a working knowledge of the NX interface, sketch creation and NX assemblies

Progressive Die Wizard Processes, an exclusive offering by the Siemens US Training team, will help expert NX tool designers acquire the skills to significantly reduce progressive die design lead time through Progressive Die Wizard automation. The curriculum mimics common tasks used in die construction and is reinforced using hands-on activities.

> CAD Routing Electrical

GENERAL INFORMATION

Software / Version: NX 12.0

Language: Material English/ Course Spanish

User Level: Intermediate to Advanced

Training Center duration: 2 Days

Prerequisites: CAD Advanced Processes

The Routing Electrical course illustrates how to create connection and component lists, how to qualify parts for use in routing assemblies, how to place parts in a wiring assembly, or to create and edit wiring paths, how to assign components and connectors (manually and automatically), and how to create formboards.

> Routing Mechanical

GENERAL INFORMATION

Software / Version: NX 12.0

Language: Material English/ Course Spanish

User Level: Beginner to Intermediate

Training Center duration: 2 Days

Prerequisites: CAD Advanced Processes Or

Successful completion of Designing parts in NX Advisor

The Routing Mechanical course teaches you to utilize the tools used to quickly define piping paths placed around and through other NX assemblies, to assign NPS stock to these paths, and to qualify and place standard parts (for example, flanges valves, and pipe tees). These subassemblies typically define the systems that provide process piping, disposal of waste, and structural support. The course also includes a section on developing logical diagrams.