

NX Design
(CAD)

NX
Manufacturing
(CAM)



NX Design (CAD)



Course name	Mechanical Designer	Ship Designer	Freeform Designer	Wiring Designer	NX Administrator
CAD Fundamentals Processes	Recommended	Recommended	Recommended	Recommended	Recommended
CAD Advanced Processes	Recommended	Recommended	Recommended	Recommended	
Teamcenter Integration for NX Users	Optional	Optional	Optional	Optional	
Synchronous Modeling	Recommended	Recommended	Recommended	Optional	
CAD Surface Modeling Processes	Optional	Recommended	Recommended		
CAD Large Assembly Management	Optional	Optional			
CAD Sheet Metal Modeling Processes	Recommended	Optional			
Shape Studio		Recommended	Optional		
Shipbuilding		Recommended			
CAD Routing Mechanical				Recommended	
CAD Routing Electrical				Recommended	
NX Administration	Optional				Optional
Teamcenter NX CAD Configuration					Optional

The learning tracks have been provided to help you plan a productive development path through our courseware.


Learning tracks start from the top and progress downward. Select any course below to open the training content.



Recommended



Optional

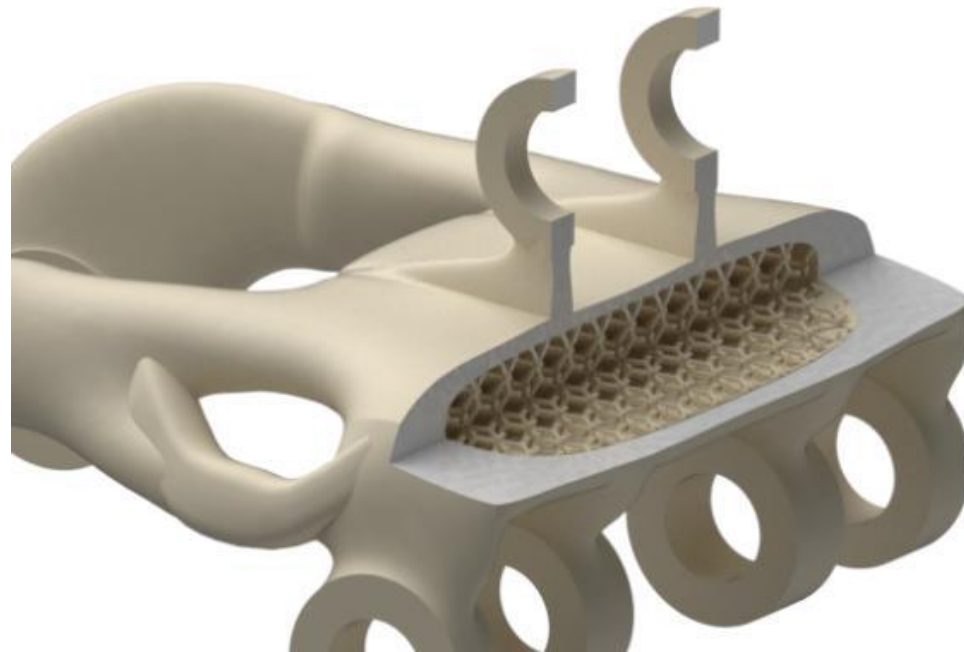
For more NX Design (CAD) courses see next page: 



NX Design (CAD)

Select the Course for more information:

- [PLM Manager Awareness Training](#)
- [CAD Hothouse](#)
- [CAD Update](#)
- [Open API](#)
- [CAD Model Based Definition using PMI](#)
- [NX Render](#)
- [Shipbuilding for Admins or Key Users](#)
- [Product Template Studio](#)
- [WAVE](#)



Shipbuilding

Duration: 5 days

Who should attend: Users with shipbuilding background

Prerequisites: Designing Parts in NX

Follow up Training: NX Shipbuilding for admins or key-users

The NX Shipbuilding software provides a focused environment for modeling the structural area of a ship, enabling the user to easily conceptualize this structure and model the frames, decks, bulkheads, Stiffeners and Brackets.

NX Ship Structure provides the ability to design all kind of profiles for ship frames, floors and keelsons, all kind of sheets for compartment walls and all kind of edge reinforcements for support structures.

Once the steel structure is complete, NX Ship Structure aids in the assembly of the ship and in the manufacturing of parts.

This training is scheduled over 2 separate weeks in 3 + 2 days.

Day 1

- Overview Ship Structure
- Overview assembly structure for shipbuilding
- Overview Hull modeling in NX
- Ship Structure Concept Model
- Ship Structure Sectioning

Day 3

- Trace Lines, Longitudinal Stiffener Guides
- Shell expansion (Shell enrollment)
- Overview Ship Structure Detailed Design
- Plates
- Profiles, Stiffeners
- Edge Reinforcements
- Pillars
- Profile Cutouts, Split Plates/Profiles, End Cuts, Corner Cuts, Guide Cuts, Edge Cuts, Cutouts.....

More information?

Siemens PLM Software
T: +31 (0) 73 - 680 2500
E: info.benelux.plm@siemens.com

Day 2

- Overview Ship Structure Basic Design
- Tools: Planar Ship Grid, Ship coordinates, Ship Container
- Plate Systems
- Stiffener Systems
- Edge Reinforcement Systems
- Seams + Transition Parts

Day 4

- Copy Parts between Plates
- Standard Parts
- Overview Ship Structure Manufacturing
- Manufacturing Preparation (Attributes/Pos. No.)
- Cutting Side, Marking Lines, Reference Lines
- Excess Material, Rolling Lines, Pressure Lines

Day 5

- Plate Preparation incl. Shrinking and expansion of single curved and double curved plates
- Manufacturing XML Output (Export Cutparts)
- Material Allowance, Edge Cut Marking, Knuckled Profiles, Inverse Bending Lines, Profile List
- Templates
- Ship drafting functionalities
- Tips and tricks.....



CAD Hothouse

SIEMENS
Ingenuity for life

Duration: 10 days

Who should attend: Design Engineers

Prerequisites: none

Follow up Training: Large Assembly Management, Freeform Modeling and Sheet Metal

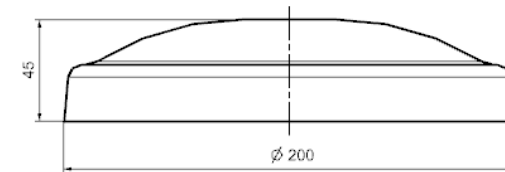
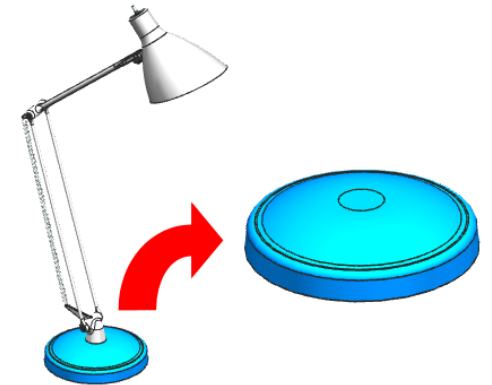
The NX CAD Hot House provides you a fast and thorough training in NX CAD.

It is a combined and comprised training containing the following topics: Modeling (Sketch), Assemblies, Drafting, Synchronous Technology and Teamcenter Integration for NX Users.

The learned knowledge will be put into practice in a project.

Day 1 - 10

- 2.5 days: Basic Modeling (Sketch)
- 0.5 day: Synchronous Modeling
- 2.5 days: Assemblies
- 1.5 days: Drafting
- 1 day: Teamcenter Integration for NX Users
- 2 days: Project



More information?

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NX Shipbuilding for Admins or Key Users

Duration: 1 day

Who should attend: Training is addressed to users with responsibility for settings, library etc.

Prerequisites: Designing Parts in NX (Modeling)

NX Ship Design software provides a focused environment for modeling the structural area of a ship, enabling the user to easily conceptualize this structure and model the frames, decks and bulkheads.

NX Ship Design provides the ability to design linear and nonlinear profiles for ship frames, linear and nonlinear sheets for compartment walls and linear and nonlinear belts for support structures between walls. Once the steel structure is complete, NX Ship Design aids in the assembly of the ship and in the manufacturing of parts.

Day 1

- Cutting side
- straightbrake parts
- marking lines
- reference lines
- user text
- shrinking
- plate expansion
- profile list
- manufacturing xml output
- Settings in xml files and configs



More information?

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NX Manufacturing (CAM)



Course name	CNC Programmer Lathe	CNC Programmer Fixed Axis	CNC Programmer Multi Axis	CNC Programmer System Admin
CAD for CAM ¹	✓	✓	✓	✓
CAM Manufacturing Fundamentals (2,5 axis)	✓	✓	✓	✓
CAM Turning Manufacturing Process	✓			
CAM Fixed Axis Milling (3 axis)		✓	✓	
CAM Multi Axis Milling (5 axis)			✓	
CAM Post Building Techniques				✓
NX Administration				✓

1. The [CAD Fundamentals Processes](#) training may be taken in place of the CAD for CAM training.

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Recommended



Optional



NX Manufacturing (CAM)

Select the Course for more information:

- [CAM Feature-Based Machining](#)
- [CAM Customization and Configuration](#)
- [Post Configurator](#)
- [CAM Update](#)
- [CMM Inspection Programming](#)
- [PLM Manager Awareness Training](#)
- [Open API](#)

