



NUPAS

C A D M A T I C

Training Overview

Hull modules



NUPAS-CADMATIC 3D Hull Engineering

Hull User Training

This training is meant for structural designers. The duration of the training is four days. No specific knowledge about the software is necessary when participating in this course, except for basic knowledge about ship construction.

Elementary knowledge
Total training days
Maximum participants

Basic knowledge about ship construction
4 days
4 users

Day 1	<ul style="list-style-type: none"> Introduction to the NUPAS-CADMATIC Hull User Interface Overview of applications Setting up a new block including views/drawings Creating plates Retrieving and storing views/drawings Creating holes and deck beams Creating soft seams Construction presentation in Hull Viewer
Day 2	<ul style="list-style-type: none"> Profiles: splitting, shortening and lengthening Creating complex plates Creating welding holes, corner holes etc. Manipulation options (thickness, holes, profiles, welding holes etc.) Annotating and dimensioning views (text, weld symbols, etc.) Special 3D-Show functions Manipulation of 2D entities Creating bulkhead stiffeners
Day 3	<ul style="list-style-type: none"> Plate splitting functions Dimensioning functions Creating profiles, brackets, girders and flanges Retrieving information about parts Creating cutouts Block and drawing settings View manipulations Copying plates and attributes Creating shell frames Pillars Setting up a sheet drawing incl. title field Creating a 3D view of the model
Day 4	<ul style="list-style-type: none"> Advanced options: <ul style="list-style-type: none"> Creating slanted views/drawings Creating slanted plates Creating complex plates / stiffeners / holes Knuckle function Multi hole options General drafting functions Construction detail function Copying block / removing block



NUPAS-CADMATIC 3D Hull Engineering

Production Information Training

This training is meant for 3D designers / production engineers. The duration of the training is one day. The Hull User Training is required when participating in this course, and some experience in the software and production process.

Elementary knowledge
Total training days
Maximum participants

Hull User training
1 day
4 users

Day 1

- Checking the 3D model
- Processing extra length
- Shrinkage compensation
- Setup Work breakdown structure
- Add / modify logistic information
- Annotate drawings
- Automatic/manual panel/subpanel/part numbering
- Automatic coding of blocks:
 - Profile sketches
 - Profile sketch list
 - Profile robot files
 - Plate parts
- Create lists:
 - Bill of Material list (BOM)
 - Weight-COG list
 - Profile list
 - Profile nesting
- Create / modify Work breakdown sketches:
 - 3D sketch
 - 2D sketch
 - Part sketch



NUPAS-CADMATIC 3D Hull Engineering

Hull Administrator Training

This training is meant for key users and hull administrators. The duration of the training is three days. The Production Information Training is required when participating in this course.

Elementary knowledge
Total training days
Maximum participants

Production Information Training
3 days
4 users

Day 1

Introduction to NUPAS-CADMATIC Hull System management
 Installation and updating of the software
 Support system
 General software structure of NUPAS-CADMATIC Hull
 General data structure of the hull centre system
 Project structure of NUPAS-CADMATIC Hull
 Creating / modifying projects:
 Handling of different shape databases
 Definition block group
 Handling different Norms per block group
 Grid setup
 Export / backup of a project

Day 2

GUI settings
 Configuration of project standards (NCG Norms)
 Views / drawings
 Create / modify title field
 Plate property's
 Body / thickness direction
 Standard description
 Material quality
 Bracket types
 Profile properties
 Body / thickness direction
 Standard description
 Material quality
 Logistical layout database / data menu
 Define process information
 Presentation of construction part dimensions

Day 3

CAM settings
 Coded parts
 CAM lists
 Sketches
 Reports
 Robot files
 Setting up Sheet drawings
 Import / export DX/DWG
 Link to piping / plate nesting
 Printer / plotter settings



NUPAS-CADMATIC 3D Hull Engineering

Advanced Hull Administrator Training

This training is meant for key users and hull administrators. The duration of the training is three days. The Hull Administrator Training is required when participating in this course.

Elementary knowledge	Hull Administrator Training
Total training days	3 days
Maximum participants	4 users
Day 1	<ul style="list-style-type: none"> Introduction to end types / holes / cutouts / ridges Explanation of geometry macro type file Explanation of command macro type file Creating new end types Add new end types to standard norms Create end type models for profile sketch Test end type
Day 2	<ul style="list-style-type: none"> Create new hole type Add hole to standard norms Create hole model for profile sketch detail Create new cutout Add cutout to standard norms
Day 3	<ul style="list-style-type: none"> Introduction to brackets Explanation of bracket geometry type file Explanation of bracket command type file Create new bracket type Add bracket to standard norms Test / modify bracket



NUPAS-CADMATIC Hull Shape Management

Hull Shape Management Training

This training is meant for key users and hull administrators. The duration of the training is one day. The Administrator Training is required when participating in this course and some knowledge about hull shape fairing techniques.

Elementary knowledge	None
Total training days	1 day
Maximum participants	4 users

Day 1	<ul style="list-style-type: none"> General information about hull shapes <ul style="list-style-type: none"> hull group definition line types definitions Configuration of NAPA database Configuration of Fairway database Create a NCG wireframe database from dxf poly lines Check NCG wireframe database / create a project. Create a hull surface database Check hull surface database Replace NCG wireframe database by hull surface database
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NUPAS-CADMATIC Plate Nesting

Plate Nesting Training

This training is meant for production engineers. The duration of the training is two days. No specific knowledge about the software is necessary when participating in this course.

Elementary knowledge **None**
Total training days **2 days**
Maximum participants **4 users**

Day 1

Introduction to Nesting and background
 User interface
 Part mode:

- Importing parts from the Hull system
- Creating / modifying geometry
- Cutting technology

Nest mode:

- Plate, remnant, nesting and cutting terms
- Optimizing plate usage
- Cutting machine and definition of parameters
- Automatic nesting
- Optimization of cutting event

Day 2

Nest mode:

- Use of remnants
- Use of the visual menu
- Part list window

Flame mode:

- Lead in / lead out methods
- Bridges and ridges
- Manual / automatic creation of cutting path
- Remnants definition
- Post processors
- Output nest sheet / reports to printers / plotters
- Data transfer to cutting machine
- Modification of part geometry / quantity in a nesting
- Bevel cutting
- Import nesting information in Hull database



NUPAS-CADMATIC Shell Plate Development

Shell Plate Development Training

This training is meant for 3D designers / production engineers. The duration of the training is two days. The Hull User Training is required when participating in this course, some experience in the software and knowledge about developing shell plates.

Elementary knowledge	Hull User Training and knowledge about developing shell plates
Total training days	2 days
Maximum participants	4 users

Day 1

- The creation of shell views
- Definition of hull groups
- Modifying shell views
- Update functions of shell views
- Creating seams
- Creating butts
- Modifying / removing seams and butts
- Copy seams and butts
- Manipulation of hull lines

Day 2

- Creating / modify / remove shell plates
- Creating / modify / remove templates
- Special shell plate settings
- Add / modify / remove extra length / shrinkage compensation
- Creating special shell plates over CL at stem and stern
- Code shell plates
- Checking results
- Create reports
- Pin Jigs

TRAINING

