The Hull & Structure Course
Training Syllabus
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Structure Modeling

Class Overview
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2. Naming Convention for Parts
3. Product Hierarchy and Nesting
4. Renaming Parts and Autonumber

Planar Groups
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2. Before You Begin Creating Planar Groups
3. Create Planar Groups
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7. Editing Planar Group Settings
8. Understanding Planar Groups
9. Move Planar Groups

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2. Types of Construction Lines
3. The Default Layers for Different Lines
4. Hull Trace
5. PlanarGroupPlane
6. User-Defined Construction Line
7. Offset Construction Line
8. Relationships
9. Mirror
10. Identicals
11. Breaking Line Relationships
12. Trimming, Breaking and Polyline Edit
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14. Swapping and Replacing Construction Lines
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10. Managing Datum Lines
11. Orientation Icons
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19. Weld Shrinkage
20. Managing the Weld Shrinkage Icon
21. Autobevel
22. Showing Bevel Angles on Plate Parts

Profile Parts
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3. Attaching Loose Stiffeners to a Plate
4. Editing Stiffeners
5. Creating & Modifying Face Plates
6. Trimming Profiles
7. Adding Cutouts in Profiles
8. Editing Added Cutouts
9. Inserting Welding Seam Reliefs
10. Profile Tools & Utilities
11. Extracting lines from stiffener (mold line, neutral axis)

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3. Editing Surface Geometric Details
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1. What is Manager Designed For?
2. How to Set-up Permissions to Access Different Settings in Manager
3. General Overview of Manager (Main Menu)
4. Import and Export Manager Settings
5. Usage Log Functionality in all Libraries

PROJECT SETTINGS

1. General Settings - AutoSave modes
2. General Settings - Units
3. General Settings - Bill of Materials
4. Hull Settings - Label Styles
5. Structure Settings - Remote Profile Cutouts
6. Structure Settings - Tolerances
7. Structure Settings - Auto-resize Settings
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11. Structure Settings – NC-Pyros Layers Settings
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1. Structure of the Library
2. Materials
3. Grades
4. Material Characteristics
5. Where and How the Material Characteristics are Used
MANUFACTURERS LIBRARY
1. Structure of the Library

FINISHES LIBRARY
1. Structure of the Library
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4. Text Styles Locations
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6. Defining Text Styles in Templates, Importing Text Styles into Manager

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2. Types of Fields in a Naming Convention
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4. Settings of the AutoNumber Field
5. Manage Aliases Command
6. Generate Names command

PRODUCTION OUTPUT – DIMENSION STYLES
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2. Label Styles
3. Type Carefully
4. Label Styles in BOMs

PRODUCTION OUTPUT – BILLS OF MATERIAL
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2. BOM Settings
3. BOM Definitions
4. Fields
5. Formatting of Fields
6. Sorting
7. Merging Identicals (Pros and Cons)
8. Collectors
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PRODUCTION OUTPUT – PREDEFINED ASSEMBLY FORMAT
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2. Plate – Properties, Inventory and Sizes
3. Corrugated Plate
4. Profile
5. Shapes
6. Cutouts
7. Planks
8. Shapes
9. Sizes (length) and Quantities

USER DEFINED ATTRIBUTES (UDAS)
1. Creating UDAs
2. Assigning UDAs to Parts, Stocks and Sizes. What is the difference?
3. Types of Attributes – Required, Deferred, Not Required
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13. Green Material Library
14. Bevel Standards
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18. How NC Machines Affect Nest Drawings

PROFILE PARTS DETAILED SETTINGS
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3. Assigning Endcuts to Stock
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3. What can be a Component of a Standard Assembly and What Cannot
4. Defining a Product Hierarchy within the Standard Assembly and exploring how it interacts with the Overall Product Hierarchy
5. Parts Naming in Standard Assemblies
6. Purchased Assemblies
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1. Work Flow Overview
2. Hull Drawings
3. The Hull - Structure Relationship
4. Creating a Hull drawing
5. Introduction to Hull Objects & Hull Related Objects
6. Surfaces
7. Single Curved Surfaces
8. Double Curved Surfaces
9. Expanded Surfaces
10. Orientation Icons
11. Forming Templates
12. Forming Controls
13. Shell Surfaces
14. Surface Marklines
15. NURBS Curves
16. Porcupines
17. Curve Blocks
18. Stringer Shells
19. Stringers
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21. Pin Jigs
22. Labels
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24. General Hull Utilities
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12. Extract Curves from Reflines
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