

ShipConstructor Essentials Course Training Syllabus



SHIPCONSTRUCTOR ESSENTIALS

Introduction

The ShipConstructor Project

- Learning Objectives

- Overview

- The Project .PRO File

- The Drawing Files

 - 3D Model Drawings

 - 3D Reference Drawings

 - 2D Production Drawings

 - Template Drawings

- Prerequisites

 - The SQL Database

 - Install

 - Database and Log Files

- Install ShipConstructor

- Configuring Your SQL Server Express Installation

- Starting ShipConstructor

- Deploying the Training Project

Licensing

- Learning Objectives

- Overview

- Product Editions

- Suites

- Special Licenses

 - WorkShare Licensing

 - EnterprisePlatform Licensing

Compatibility with Previous Versions of ShipConstructor

Organization with Multiple Projects

Overview of the Licensing Process

 Generating a Computer Host Token

 Installing/Updating Licenses

The Knowledge Base - Licensing Questions

 Releasing a License

The ShipConstructor Environment

Learning Objectives

The Parts of the ShipConstructor Environment

 Titlebar

 Ribbon

 Command Line

 Status Bar

 Navigation Bar

 Crosshairs

Understanding Workspaces

 Configuring the Ribbon

 Change the Ribbon View

 Hide/Unhide Tabs:

 Hide Panels

 Undock the Ribbon

 Sticky Panels

Manager

 Overview

Navigator

 Learning Objectives

 Overview

 Introduction

- Connect to a Project
- The Navigator Window
- Parts of the Navigator Window
- Customizing the Component List
- The Project

Working with Navigator

Units

- Creating Units
- Deleting Units

Working with Drawings

- Creating Drawings
- Opening Drawings
- Open a ShipConstructor Database-only Drawing
- A Note about Opening Drawings
- Deleting Drawings
- Showing Out of Date Drawings

Additional Navigator Tools

- Change Project
- Reload DB
- Searching and Filtering Revisions
- Other Options

ShipConstructor and AutoCAD Design Tools

- Properties Palette
- Layers
- List
- Grips
- Visual Styles
- Orbit/Pan/Zoom

Product Hierarchy

Learning Objectives

Overview

- Levels

- Steps to Developing a Product Hierarchy

Product Hierarchy Tools

- Set up Multiple Product Hierarchies

- Copy a Product Hierarchy

- Export a Product Hierarchy to another ShipConstructor Project

- Import a Product Hierarchy from another ShipConstructor Project

Set up Product Hierarchy Drawings

- Create a Product Hierarchy Drawing

- Rename a Product Hierarchy Drawing

- Delete a Product Hierarchy Drawing

Product Hierarchy Drawing Interactions

- Key Point

- Hide, Show, Find, Zoom, and Remove Parts

 - Hide and Show Parts

 - Find a Part

 - Selecting Parts across Product Hierarchies

 - Zoom to a Part

 - Copy Names

 - Unload/Re-load

 - Assign to Assemblies

- Properties

- To Assign a User-defined Attribute to a Product Hierarchy

- To Remove a User-defined Attribute

Set up Assembly Levels

- Tips for Navigating the Product Hierarchy Palette

- Things to Remember about Product Hierarchy

Set up Assemblies - Add an Assembly
Set up Assemblies - Rename an Assembly
Set up Assemblies - Edit an Assembly
Set up Assemblies – Change the Level of an Assembly
Set up Assemblies - Copy an Assembly
Set up Assemblies - Deleting Assemblies
Set up Product Hierarchy for Training
Exploded Assembly View
Product Hierarchy and Naming Conventions
Product Hierarchy and Production Drawings
Product Hierarchy and Nesting

ShipConstructor Utilities

Learning Objectives
3D Viewpoint
Activate UCS
UCS
 Flip UCS X
 Flip UCS Y
 Swap UCS XY Axis
Hide Objects
Unhide Objects
Unhide All Objects
Clip Current View
Remove Clip
3D to 2D
Orthographic Projection
Remove Vertices below Tolerance
Convert Ellipse/Spline to Polyline
Layer

Tool Path

Fillet

Mirror about Centerline

Reload Drawing

Create a Quality Matrix

- Label

- Matrix

Property Labels

Reference Lines

PartViews

The MLink Manager

- MLink Manager Options

List Item within Mlink/XRef Drawings

Referencing Parts using Part Views and NavisWorks (Reference Coordination Models)

Part Views

- Load PartViews by Selected Extents

- Checking PartView Properties

- Viewing PartView in Product Hierarchy

- Checking for Interferences with PartViews

- Viewing Interferences

- Creating an Interference Report

- Load PartViews by SCAdvPartViewLoadManager

- NavisWorks - Reference a Coordination Model

Edit All Dwg Options

- Structure

- Hangers

- Pipe

- HVAC

Electrical

Equipment

Export

Export to DWG

More with Export to NWC

Extract Centerline

Snap

Snap Settings

Random Color

Verifying & Submitting Your Project

Student Feedback

Additional Training Information

Certification

Recommended Number of Days per Class (with an Instructor)

Hull and Structure Classes

Outfitting Classes