

SOLIDWORKS Assembly Modeling Course

LENGTH: 2 DAYS

Prerequisites: SOLIDWORKS Essentials

Description: Assembly Modeling teaches you how to maximize your use of the assembly modeling capabilities of SOLIDWORKS mechanical design automation software.



Topics covered in this course are:

Introduction

About This Course

Lesson 1:

Advanced Mate Techniques

- SOLIDWORKS Assemblies
- Assembly File Structure
- File References
- File Reference Example
- External Reference Search Order
- Solving Mates
- Advanced Mate Techniques
- Case Study: Mate Shortcuts
- Mate References
- Design Library Parts
- Capture Mate References
- Named Mate Reference
- Multiple Mate Mode
- Using Copy with Mates
- Case Study: Copy With Mates
- Copy with Mate Options
- Fixed Components
- Summary: Inserting and Mating Components
- Advanced Mate Features
- Case Study: Advanced Mate Features

Lesson 2:

Top-Down Assembly Modeling

- Top-Down Assembly Modeling
- Stages in the Process
- Case Study: Building In-context Parts
- Building In-context Features
- Propagating Changes
- Saving Virtual Parts as External
- In-Context Features
- External References
- Breaking and Locking External References
- Machine_Vise Design Intent
- Removing External References

Lesson 3: Assembly Features, Smart Fasteners, and Smart Components

- Assembly Features and Smart Fasteners
- Assembly Features
- Case Study: Assembly Features
- Smart Fasteners
- Smart Components
- Case Study: Smart Component

Lesson 4: Assembly Editing

- Assembly Editing
- Key Topics
- Editing Activities
- Case Study: Assembly Editing
- Replacing and Modifying Components
- Troubleshooting an Assembly
- Replacing Components Using Save As
- Mirroring Components
- Reloading Components
- Assembly Evaluation Tools
- Case Study: Hole Alignment
- Controlling Dimensions in an Assembly
- Sensors

Lesson 5: Using Configurations with Assemblies

- Using Configurations with Assemblies
- Case Study: Assembly Configurations
- Component Patterns
- Creating Configurations Manually
- Configuration Properties
- Using the Modify Configurations Dialog
- Changing Configurations using the Context Toolbar
- Configuration Publisher

Lesson 6: Display States and Appearances

- Display States
- Bulk Selection Tools
- Case Study: Display States
- Advanced Select
- Envelopes
- Appearances, Materials and Scenes
- Case Study: Appearances and Materials

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Lesson 7: Layout-based Assembly Design

- Layout-based Assembly Design
- Key Topics
- Case Study: Clamp Blocks
- Inserting Blocks
- Creating a Part from a Block
- Gear and Pulley Motion in Blocks
- Case Study: Gears and Pulleys

Lesson 8: Large Assemblies

- Large Assemblies
- Key Topics
- Lightweight Components
- Large Assembly Mode
- Case Study: Large Assembly Options
- Using SpeedPak
- Using Configurations with Large Assemblies
- Defeature
- Modifying the Structure of an Assembly
- Assembly Visualization
- Large Design Review
- Tips for Faster Assemblies
- Drawing Considerations
- The SimulationXpress Interface



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