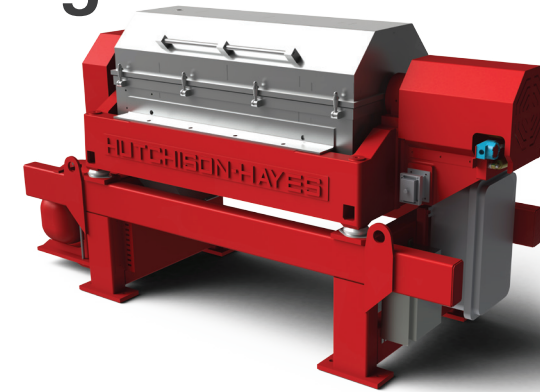




SolidWorks Assembly Modeling 2012 Training Course

Course Outline Duration: 2 days • Prerequisites: SolidWorks Essentials

- LESSON 1** Top-Down Assembly Modeling
- LESSON 2** Assembly Features and Smart Fasteners
- LESSON 3** Advanced Mate Techniques
- LESSON 4** Using Configurations with Assemblies
- LESSON 5** Display States and Appearances
- LESSON 6** Assembly Editing
- LESSON 7** Layout-based Assembly Design
- LESSON 8** Large Assemblies



Training Content

LESSON 1

Top-Down Assembly Modeling

- Top-Down Assembly Modeling
- Stages in the Process
- Building Virtual Parts
- Building Parts in an Assembly
- In-Context Features
- Propagating Changes
- Saving Virtual Parts as External
- External References
- Breaking External References
- Removing External References

LESSON 2

Assembly Features and Smart Fasteners

- Assembly Features and Smart Fasteners
- Stages in the Process
- Assembly Features
- Smart Fasteners

LESSON 3

Advanced Mate Techniques

- Advanced Mates
- Adding Mate References
- Design Library Parts
- Capture Mate References
- Smart Components
- Advanced & Mechanical Mate Types
- Summary: Inserting and Mating Components
- Multiple Mate Mode
- Using Copy with Mates
- Mate Options

LESSON 4

Using Configurations with Assemblies

- Using Configurations with Assemblies
- Stages in the Process
- Component Patterns
- Creating Configurations Manually
- Configuration Properties
- Using Configure Component
- Configuration Publisher

LESSON 5

Display States and Appearances

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

LESSON 6

Assembly Editing

- Assembly Editing
- Key Topics
- Editing Activities
- Replacing and Modifying Components
- Troubleshooting an Assembly
- Replacing Components Using Save As
- Mirroring Components
- Hole Alignment
- Controlling Dimensions in an Assembly
- Sensors

LESSON 7

Layout-based Assembly Design

- Layout-based Assembly Design
- Key Topics
- Blocks
- Inserting Blocks
- Creating a Part from a Block
- Gear and Pulley Motion in Block

LESSON 8

Large Assemblies

- Large Assemblies
- Key Topics
- Lightweight Components
- Large Assembly Mode
- Using SpeedPak
- Defeature
- Using Configurations with Large Assemblies
- Modifying the Structure of an Assembly
- Assembly Visualization
- Large Design Review
- Tips for Faster Assemblies
- Drawing Considerations

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