

Course Duration: 2 days

Prerequisites: SolidWorks Essentials

Description: Assembly Modeling teaches you how to maximise your use of the assembly modeling of SolidWorks mechanical design automation software

The topics covered in this course are:

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 and 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
- Configuration Properties
- Using Configure Component
- Creating Configurations Manually
- 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

Lesson 8: Large Assemblies

- Large Assemblies
- Key Topics
- Lightweight Components
- Large Assembly Mode
- Selective Open with Hide
- Using Quick View / Selective Open
- Using SpeedPak
- Defeature
- Using Configurations with Large Assemblies
- Modifying the Structure of an Assembly
- Assembly Visualization
- Tips for Faster Assemblies
- Drawing Considerations



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