

TRAINING: SOLIDWORKS Assembly Modeling (3 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.

Introduction:

- ☒ About This Course

Lesson 1: Advanced Mate Techniques

- ☒ SOLIDWORKS Assemblies
- ☒ Assembly File Structure
- ☒ File References
- ☒ File Reference Example
- ☒ Solving Mates
- ☒ Advanced Mate Techniques
- ☒ Mate References
- ☒ Design Library Parts
- ☒ Capture Mate References
- ☒ Mates with Axes and Planes
- ☒ Multiple Selection Mate References
- ☒ Multiple Mate Mode
- ☒ Driven Mates
- ☒ Using Misaligned Mates
- ☒ Copying Multiple Components
- ☒ Fixed Components
- ☒ Summary: Inserting and Mating Components
- ☒ Advanced Mate Features
- ☒ Profile Center Mate
- ☒ Rack Pinion Mate

Lesson 2: Top-Down Assembly Modeling

- ☒ Top-Down Assembly Modeling
- ☒ Stages in the Process
- ☒ Making Changes to Dimensions
- ☒ Adding Features In-context
- ☒ Inserting a New Part into an Assembly
- ☒ Building In-context Features
- ☒ Propagating Changes
- ☒ Saving Virtual Parts as External
- ☒ External References
- ☒ Breaking and Locking External References
- ☒ Assembly Design Intent

- ☒ SOLIDWORKS File Utilities
- ☒ Removing External References

Lesson 3: Assembly Features and Smart Components

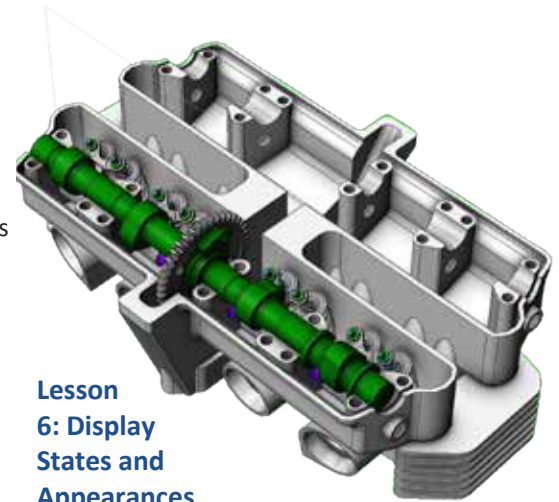
- ☒ Assembly Features and Smart Fasteners
- ☒ Assembly Features
- ☒ Hole Series
- ☒ Smart Fasteners
- ☒ Smart Components
- ☒ Flexible Components

Lesson 4: Assembly Editing

- ☒ Key Topics
- ☒ Mate Errors
- ☒ Replacing and Modifying Components
- ☒ Converting Parts and Assemblies
- ☒ Replacing Components Using Save As
- ☒ Reloading Components
- ☒ Component Patterns

Lesson 5: Using Configurations with Assemblies

- ☒ Using Configurations with Assemblies
- ☒ Creating Configurations Manually.
- ☒ Configuration Properties.
- ☒ Using the Modify Configurations Dialog
- ☒ Changing Configurations using the Context Toolbar
- ☒ Managing the Tree Display
- ☒ Assembly Evaluation Tools
- ☒ Controlling Dimensions in an Assembly
- ☒ Creating an Equality
- ☒ Equations With Functions
- ☒ Comments
- ☒ Sensors



Lesson 6: Display States and Appearances

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

Lesson 7: Large Assemblies

- ☒ Large Assemblies
- ☒ Key Topics
- ☒ Assembly Modes
- ☒ Assembly Visualization
- ☒ Lightweight Components Large Assembly Settings.
- ☒ Using SpeedPak
- ☒ Using Simplified Configurations
- ☒ Defeature
- ☒ Modifying the Structure of an Assembly
- ☒ Envelope Publisher
- ☒ Large Design Review
- ☒ Comparison of Modes and Methods2
- ☒ Tips for Faster Assemblies

Lesson 8: Facility Layout

- ☒ Facility Layout
- ☒ Publishing an Asset
- ☒ Using Magnetic Mates
- ☒ Modeling Connection Point Geometry

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