



Training SolidWorks Assembly Modelling

Description Assembly Modeling teaches you how to maximize your use of the

assembly modeling capabilities of SOLIDWORKS mechanical design

automation software.

Prerequisites SolidWorks Essentials course

Duration 3 Days

Course Outline

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 Multiple Selection Mate References Multiple Mate Mode Driven Mates Using Misaligned Mates Copying Multiple Components Fixed Components Advanced Mate Features Profile Center Mate Rack Pinion Mate



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	Tan Davin Accombby Madelian
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
	Assembly Editing
	Key Topics
	Mate Errors
	Replacing and Modifying Components
	Converting Parts and Assemblies
	Replacing Components Using Save As
	Reloading Components
	The state of the s
	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
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	Controlling Dimensions in an Assembly Creating on Equality
	Creating an Equality
	Equations With Functions
	• Comments
	• Sensors
	Using the Mate Controller



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Lesson 6	Display States and Appearances
	Display States
	Bulk Selection Tools
	Advanced Select
	Envelopes
	Appearances, Materials and Scenes
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Lesson 7	Large Assemblies
20000117	Large Assemblies
	Key Topics
	Assembly Modes
	Assembly Visualization Light visight Compagnets
	Lightweight Components
	Large Assembly Mode
	Using SpeedPak
	Using Simplified Configurations
	Defeature
	Modifying the Structure of an Assembly
	Envelope Publisher
	Large Design Review
	Comparison of Modes and Methods
	Tips for Faster Assemblies
	Drawing Considerations
	Drawing Gonsiderations
Lesson 8	Facility Layout
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	Publishing an Asset
	Using Magnetic Mates Madeling Compaction Rejet Comments
	Modeling Connection Point Geometry
Lesson 9	Using SOLIDWORKS Treehouse
Lesson a	SOLIDWORKS Treehouse
	Setting Treehouse Instances
	Exporting Treehouse Data

