CADspace Training

Course Outline

Solidworks Assembly Modeling – 2 days

Description	This course teaches how to maximize your use of the assembly modelling capabilities of SolidWorks including 'Top-Down' Assembly modeling and managing large assemblies
Prerequisites	Solidworks Essentials course Solidworks advanced part modeling course

Lesson 1: Advanced Mate Techniques
SOLIDWORKS Assemblies
Assembly File Structure
File References
Solving Mates
Mate References
Design Library Parts
Capture Mate References
Multiple Selection Mate References
Multiple Mate Mode
Driven Mates
Using Misaligned Mates
Copying Multiple Components
Using Copy with Mates
Fixed Components
Advanced Mate Features
Profile Centre Mate
Rack Pinion Mate

Lesson 2: Top-Down Assembly Modeling
Top-Down Assembly Modeling
Stages in the Process
Making Changes to the 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
Removing External References

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

Lesson 4: Assembly Editing
Assembly Editing
Key Topics
Editing Activities
Replacing and Modifying Components
Trouble-shooting an Assembly
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 Modify Configurations Dialog
Changing Configurations using Context Toolbar
Managing the Tree Display
Assembly Evaluation Tools
Controlling Dimensions in an Assembly
Creating an Equality
Equations with Functions
Sensors
Using Mate Controller

Lesson 6: Display States and Appearances
Display States
Bulk Selection Tools
Advanced Select
Envelopes
Appearances, Materials and Scenes

Lesson 7: Large Assemblies
Large Assemblies
Key Topics
Lightweight Components
Large Assembly Mode
Using SpeedPak
Using Configurations with Large Assemblies
Defeature
Modifying Structure of an Assembly
Assembly Visualisation
Large Design Review
Tips for Faster Assembly
Drawing Considerations

Lesson 8: Facility Layout
Facility Layout
Publishing an Asset
Using Magnetic Mates
Modeling Connection Point Geometry

Lesson 9: Using SOLIDWORKS Treehouse
SOLIDWORKS Treehouse
Setting Treehouse Instances
Exporting Treehouse Data

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