SolidWorks Advance Assemblies

THE TOPICS COVERED IN THIS COURSE ARE:

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

Duration: 2 days

Prerequisites: SolidWorks Essentials Course

Description: Advanced Assembly Modeling teaches you how to maximize your use of the assembly modeling capabilities of SolidWorks mechanical design automation software.

Lesson 1:
Top-Down Assembly Modeling

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

Lesson 2:
Advanced Mate Techniques

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

Lesson 3:
Using Configurations with Assemblies

Using Configurations with Assemblies
Stages in the Process
Component Patterns
Using Configure Component
Creating Configurations Manually
Using Design Tables with Assemblies
Understanding Design Tables
Manipulating the Design Table

Lesson 4:
Display States and Appearances

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

Lesson 5:
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 6:
Layout-based Assembly Design

Layout-based Assembly Design
Key Topics
Blocks
Inserting Blocks
Testing with the MotionManager
Creating a Part from a Block

Lesson 7:
Large Assemblies

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

Lesson 8:
The MotionManager

MotionManager
Using the Animation Wizard
Free Motion
Drag Motion
Motors and Motion
Visual Properties
Interpolation Modes
View Orientation States
Basic Motion
Using Physical Dynamics

real education

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