

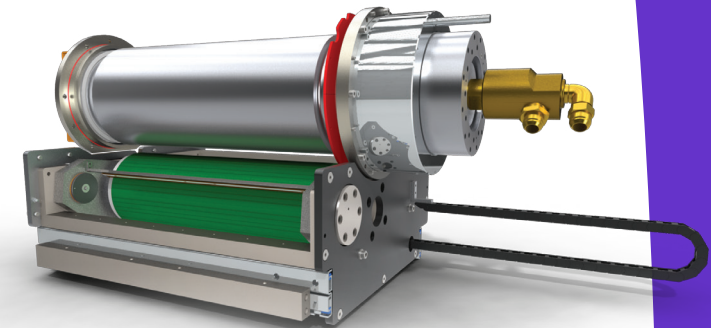
SolidWorks Advance Part Modeling 2012 Training Course

Course Outline

Duration: 2 days • Prerequisites: SolidWorks Essentials

- LESSON 1** Sketching with Splines
- LESSON 2** Multibody Solids: How They Work
- LESSON 3** Uses of Multibody Solids
- LESSON 4** Introduction to Sweeping

- LESSON 5** Working with Curves
- LESSON 6** Advanced Sweeping
- LESSON 7** Lofts
- LESSON 8** Other Advanced Tools



Training Content

LESSON 1

Sketching with Splines

- Sketching Splines
- Introducing: Spline
- Introducing: Show Curvature Combs
- Sketch Picture
- Introducing: Sketch Picture
- Review

LESSON 2

Sweeps

Multibody Solids: How They Work

- Multibody Solids
- Multibody Techniques
- Introducing: Solid Bodies Folder
- Feature Scope
- Patterning Bodies
- Tool Body
- Introducing: Insert Part
- Introducing: Move/Copy Bodies
- Combining Bodies
- Introducing: Combine

LESSON 3

Uses of Multibody Solids

- Common Bodies
- Indent Feature
- Introducing: Delete Body
- Local Operations

- Modeling Negative Space
- Using Cut to Create Multibodies
- Saving Solid Bodies as Parts and Assemblies
- Introducing: Insert into New Part
- Introducing: Save Bodies
- Splitting a Part into Multibodies
- Introducing: Split
- Creating an Assembly
- Introducing: Create Assembly
- Using Split Part with Legacy Data

LESSON 4

Introduction to Sweeping

- Sweeping
- Case Study: Faux Raised Panel Door
- Sweep with Guide Curves
- Case Study: Bottle
- Sweep Options
- Sweep with Guide Curves
- Introducing: Dome
- Introducing: SelectionManager

LESSON 5

Working with Curves

- Case Study: Modeling a Spring
- Sweeping Along a 3D Path
- 3D Sketching
- Introducing: Helix and Spiral

- Introducing: Projected Curve
- Introducing: Composite Curve
- Introducing: Fit Spline
- Applying the Label to the Bottle
- Modeling Threads
- Case Study: Creating a Curve Through a Set of Points
- Sketch Blocks
- Introducing: Sketch Blocks
- Equation Driven Curves
- Introducing: Equation Driven Curve
- Introducing: Split Line

LESSON 6

Advanced Sweeping

- Orientation and Twist Control
- Align with End Faces
- Sweeping Along Model Edges
- Sweeping a Tool Body

LESSON 7

Lofts

- Lofting and Sweeping: What's the Difference?
- How Lofting Works
- Basic Lofting
- Introducing: Loft
- Using Derived and Copied Sketches

- Copying a Sketch
- Derived Sketches
- Introducing: Insert Derived Sketch
- Centerline Lofting
- Introducing: Split Entities
- Cleaning Up a Model
- Introducing: Delete Face
- Introducing: Deviation Analysis
- Advanced Lofting
- Layout Sketches
- Boundary Feature

LESSON 8

Other Advanced Tools

- Advanced Fillets
- Analyzing Geometry
- Introducing: Display Curvature
- Introducing: Intersection Curve
- Introducing: Zebra Stripes
- Introducing: Wrap Feature
- Deform Feature
- Introducing: Deform
- Introducing: Knit Surface
- Move Face and Delete Face
- Introducing: Move Face
- Performance Considerations

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