



## SOLIDWORKS 2007: ADVANCED PART MODELING

**Objective:** Advanced Part Modeling teaches you how to use multibody solids, sweeping and lofting features, and the more advanced shaping capabilities of Solidworks.

**Prerequisites:** Mechanical design experience; experience with the Windows™ operating system.

**Duration:** 3-Day (24 hours)

### COURSE OUTLINE

The topics covered in this course are:

#### Lesson 1: Multibody Solids

- Multibody Solids
- Bridging
- Extrude From
- Local Operations
- Combined Bodies
- Common Bodies
- Tool Body
- Symmetry
- Indent Feature
- Using Cut to Create Multibodies
- Saving Solid Bodies as Parts and Assemblies
- Feature Scope
- Splitting a Part into Multibodies
- Creating an Assembly
- Using Split Part with Legacy Data

#### Lesson 2: Sweeps

- Introduction
- Sweeping
- Sweeping Along a 3D Path
- 3D Sketching
- Sweeping and Lofting: What's the Difference?
- Creating a Curve Through a Set of Points
- The Label Shape
- Working with a Non-planar Path
- Variable Radius Filleting
- Analyzing Geometry
- Filleting the Label Outline
- Selecting Edges
- Performance Considerations
- Modeling Threads
- Using Twist
- Sweeping Along Model Edges

#### Lesson 3: Lofts and Splines

- Basic Lofting
- Using Derived and Copied Sketches
- Copying a Sketch
- Derived Sketches
- Centerline Lofting
- Spline Sketching
- Advanced Lofting
- Sketch Picture
- Selection Manager

#### Lesson 4: Other Advanced Tools

- Advanced Fillets
- Using Flex
- Wrap Feature
- Dome and Shape Features
- Deform Feature
- Move Face and Delete Face

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