



## SolidWorks Advanced Part Modeling

Prerequisites	Length	Description
SolidWorks Essentials or equivalent experience.	2 Days	Advanced Part Modeling teaches students how to use multibody solids, sweeping and lofting features and the more advanced shaping capabilities of SolidWorks.

### Multibody Solids

- Multibody Solids and Solid Bodies
- Local Operations
- Extrude From
- Patterning
- Combined, Common Bodies
- Move/Copy Bodies
- Tool Body
- Insert Part, Insert into New Part
- Mate Reference
- Indent Feature
- Feature Scope
- Using Cut to Create Multibodies
- Splitting a Part into Multibodies
- Using Split Part with Legacy Data
- Saving Solid Bodies as Parts & Assemblies

### Sweeps

- Sweeping & Lofting: What's the Difference
- Sweep Options
- Orientation & Twist Control, Align with End Faces
- Selecting Edges, Select Loop, Selection Manager
- Split Lines, Fit Spline
- Curves: Helix, Spiral, Projected, Composite, Intersection Curve, and through a set of points.
- Sweeping Along Model Edges
- Sweeping Along a 3D Path
- Sweeping a Tool Body
- Analyzing Geometry, Display Curvature, Curvature Combs, Zebra Stripes
- Performance Considerations
- Modeling Threads

### Lofts and Splines

- Basic Lofting, Advanced Lofting
- Sketch Picture, Layout Sketches
- Using Derived & Copied Sketches
- Spline Sketching
- Split Entities
- Boundary Feature
- Centerline Lofting
- Cleaning Up a Model
- Delete Face- Deviation Analysis

### Other Advanced Tools

- Advanced Fillets
- Wrap Feature
- Equation Driven Curves
- Deform Feature
- Knit Surface
- Move Face & Delete Face
- 3D Sketching
- Using 3D Sketch with the Hole Wizard

### Did You Know?

- CAD MicroSolutions keeps class sizes small (8 or less) to ensure that each student receives personal attention.
- A professionally catered lunch is provided each day.
- Our instructors have the highest level of certifications attainable.
- Our professional training facility is outfitted with optimized Dell and Boxx Workstations with 3DConnexion 3D Controllers.
- All attendees that successfully complete the course receive an official course certificate from *Dassault Systemes SolidWorks Corporation* recognizing their achievement.

**The CAD MicroSolutions Difference:  
Certified Training That Delivers Peak Performance**

