



**Duration:** 2 Days

**Prerequisites:**

- SolidWorks Essentials, Advanced Part Modeling

**Course Outline**

Surface Modeling teaches you how to build freeform shapes using SolidWorks mechanical design automation software.

The main topics covered include:

**Lesson 1: Understanding Surfaces**

- Solids and Surfaces
- Working with Surface Bodies
- Why Use Surfaces?
- Continuity Explained
- Workflow with Surfaces

**Lesson 2: Introduction to Surfacing**

- Similarities Between Solid and Surface Modeling
- Basic Surfacing

**Lesson 3: Solid-Surface Hybrid Modeling**

- Hybrid Modeling
- Using Surfaces to Modify Solids
- Interchanging Between Solids and Surfaces
- Performance Implications
- Surfaces as Construction Geometry
- Alternative to Trim, Knit, and Thicken
- Making Copies of Faces

**Lesson 4: Repairing and Editing Imported Geometry**

- Importing Data
- Repairing and Editing Imported Geometry

**Lesson 5: Advanced Surface Modeling**

- Stages in the Process
- Ruled Surfaces
- Lofting Surfaces
- Modeling the Lower Half
- Conclusion
- Design Changes

**Lesson 6: Blends and Patches**

- Complex Blends
- Smoothing Patches
- Boundary Surface
- Freeform Feature
- Corner Blends

**Lesson 7: Master Model Techniques**

- Introduction to Master Models
- Surface Master Model Technique
- Working with a Solid Master Model
- Specialized Features for Plastic Parts
- SolidWorks Explorer

*Please do not hesitate to contact us for registration and further information*

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