Training
SolidWorks Surface Modeling

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

Prerequisites SOLIDWORKS Essentials, Advanced Part Modeling

Duration 2 Days

Course Outline

Introduction	About This Course
Lesson 1	**Understanding Surfaces** • Solids and Surfaces • What is a Solid? • Behind the Scenes • Creating Solids from Surfaces • Decomposing a Solid into Surfaces • Additional Surface Concepts • Take Aways • Why Use Surfaces? • Continuity Explained • Workflow with Surfaces
Lesson 2	**Introduction to Surfacing** • Similarities Between Solid and Surface Modeling • Basic Surfacing • Alternative to Trim
Lesson 3	**Solid-Surface Hybrid Modeling** • Hybrid Modeling • Using Surfaces to Modify Solids • Interchanging Between Solids and Surfaces • Performance Implications • Surfaces as Construction Geometry • Making Copies of Faces • Flattening Surfaces

Lesson 4	**Repairing and Editing Imported Geometry** • Importing Data • File Translation • Why Do Imports Fail • SOLIDWORKS Import Options • Importing a STEP File • Comparing Geometry • Addressing Translation Errors • Repairing and Editing Imported Geometry • Procedure for Rebuilding Fillets
Lesson 5	**Blends and Patches** • Smoothing Patches • Boundary Surface • Corner Blends
Lesson 6	**Complex Blends** • Complex Blends • Freeform Feature
Lesson 7	**Advanced Surface Modeling** • Stages in the Process • Modeling the Lower Half • Design Changes
Lesson 8	**Master Model Techniques** • Introduction to Master Models • Surface Master Model Technique • Working with a Solid Master Model • Specialised Features for Plastic Parts

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