cadmicro **SOLIDWORKS TRAINING**

SOLIDWORKS SURFACE MODELING

PREREQUISITES	LENGTH	DESCRIPTION
▪ SolidWorks Essentials, Advanced Part Modeling or equivalent experience.	2 Days	▪ Surface Modeling teaches students how to build freeform shapes, surface/ solid hybrid modeling techniques and repairing imported geometry using SolidWorks mechanical design automation software.

▶ UNDERSTANDING SURFACES

- Solids & Surfaces - What's the difference
- Working with Surface Bodies
- Why Use Surfaces?
- Continuity Explained

▶ INTRODUCTION TO SURFACING

- Workflow with Surfaces
- Basic Surfacing

▶ SOLID SURFACE HYBRID MODELING

- Hybrid Modeling
- Using Surfaces to Modify Solids
- Interchanging Between Solids & Surfaces
- Surfaces as Construction Geometry
- Making Copies of Faces
- Performance Implications

▶ REPAIRING & EDITING IMPORTED GEOMETRY

- Importing Data Methodology and Recommendations
- Repairing and Editing Imported Geometry

▶ ADVANCED SURFACE MODELING

- Ruled Surfaces
- Lofted Surfaces
- Filled Surfaces
- Handling Design Changes

▶ BLENDS & PATCHES

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

▶ MASTER MODEL TECHNIQUES

- Working with a Solid Master Model
- SolidWorks Explorer