

Training Course

MECANICA SOLUTIONS CATIA V5

SURFACE AND ADVANCED SURFACE

OBJECTIVE: This course covers tools for surface design included in the Generative Shape Design Workbench that are not present in the Wireframe and Surface Design Workbench. At the end of the course, the student will be able to model complex fillets and analyze surface quality.

DURATION 4 DAYS

STUDENT PROFILE: CATIA DESIGNER PRE-REQUISITES: CATIA V5 FUNDAMENTALS

TOPIC & DETAILS	TOPIC DURATION
CATIA Surface Design <ul style="list-style-type: none"> • Introduction to Surface Design • Creating Wireframe Geometry, Creating Basic and Complex Surfaces • Performing Operations on the Geometry • Completing the Geometry in Part Design, Modifying the Geometry Draft • Analysis and Surface Curvature Analysis 	2 Days
CATIA Surface Design Expert <ul style="list-style-type: none"> • Surface Design Overview • Review of tools covered in a Surface Design course • Extremums, Creating a Connect Curve • Extracting Multiple Edges from a Sketch • Wireframe Analysis and Repair Curve Connect Checker • Porcupine Curvature Analysis • Smoothing Curves, Common Tools for Swept Surfaces • Creating a Spine Curve, Laws, Creating Advanced Swept Surfaces, Creating a Line Type Swept Surface • Creating a Circle Type Swept Surface, Creating an Adaptative Swept Surface • Creating Advanced Blend Surfaces, Creating a Fillet using Hold Curve and Spine • Blending Vertex when Making Fillets • Inverting Orientation • Creating a Conic Blend Surface, Creating a Blend Surface • Surface Analysis and Repair Connect Checker • Healing Surfaces, Draft Analysis, Mapping Analysis • Managing Features and Open Bodies, Managing the Geometry and Open Bodies • Hybrid Design, Working with Hybrid Part 	2 Days