



Course Code	EDU-CAT-E-GSD-F
Brand & Release	CATIA V5R17
Duration	2 days
Language	English
Level	Fundamentals
Method	Companion and ILT

Training Material References

Instructor Foils: EDU-CAT-E-GSD-FI-V5R17
Foils: EDU-CAT-E-GSD-FF-V5R17
Exercises: EDU-CAT-E-GSD-FX-V5R17
Detailed Steps: EDU-CAT-E-GSD-FS-V5R17

Objectives

Upon completion of this course, you will be able to:

- Correctly recall the tools of the Generative Shape Design workbench that are common to MD2 and HD2 licenses
- Identify and use the Generative Shape Design tools that are specific to the HD2 license
- Create advanced and parameterized swept surfaces
- Perform advanced surfaces analysis and gap correction
- Understand the mechanism of a multi-model environment including the use of surfaces

Participants' Profile

Mechanical Surface Designers

Prerequisites

Students attending this course should be familiar with the basics of wireframe and surfaces creation

Content

This course focuses on the Generative Shape Design tools specific to the HD2 license and will first recall and summarize the tools covered in the Surface Design course. You will capitalize on this with advanced surfaces creation tools, quality checking and correction techniques, and be introduced to surface creation in a multi-model environment.

- Surface Design Overview
- Creating Advanced Wireframe Geometry
- Wireframe Analysis and Repair
- Creating Advanced Swept Surfaces
- Creating Advanced Blend Surfaces
- Surface Analysis and Repair
- Additional Surface Design Tools

What is new in this release

This course was updated in order to reflect the main CATIA V5R17 enhancements

Exercises

- Ex. 1: Advanced Wireframe Geometry (15min) / All sectors
- Ex. 2: Wireframe Analysis and Repair (10min) / All sectors
- Ex. 3: Shampoo Bottle (40min) / All sectors
- Ex. 4: Knob (60min) / All sectors
- Ex. 5: Advanced Swept Surfaces (30min) / All sectors
- Ex. 6: Mobile Phone (60min) / All sectors
- Ex. 7: Advanced Blending Surface (30min) / All sectors
- Ex. 8: Surface Analysis (30min) / All sectors
- Ex. 9: Hybrid Design (30min) / All sectors
- Ex. 10: Mirror Shell (60min) / All sectors
- Ex. 11: Plastic Bottle (180min) / All sectors
- Ex. 12: B-Pillar (60min) / Automotive
- Ex. 13: Space Mouse Base (180min) / All sectors
- Ex. 14: Lemon Squeezer (180min) / All sectors
- Ex. 15: Driving Mirror (60min) / All sectors
- Ex. 16: Cover (60min) / All sectors