



Shape Design &  
Styling  
Solutions

**GSD:  
Surface  
Design  
Expert**

Course Code	EDU-CAT-E-GSD-F
Brand & Release	CATIA V5R19
Duration	2 days
Level	Fundamentals

#### Objectives

	<p>Upon completion of this course, you will be able to:</p> <ul style="list-style-type: none"> <li>- Correctly recall the tools of the Generative Shape Design workbench that are common to MD2 and HD2 licenses</li> <li>- Identify and use the Generative Shape Design tools that are specific to the HD2 license</li> <li>- Create advanced and parameterized swept surfaces</li> <li>- Perform advanced surfaces analysis and gap correction</li> <li>- Improve geometry quality and stability</li> </ul>
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#### Participants' Profile

	Mechanical Surface Designers
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#### Prerequisites

	Students who are familiar with the basics of wireframe and surfaces creation
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#### Content

	<p>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.</p> <ul style="list-style-type: none"> <li>- Introduction to Surface Design</li> <li>- Creating Advanced Wireframe Features</li> <li>- Wireframe Analysis and Repair</li> <li>- Creating Advanced Swept Surfaces</li> <li>- Creating Advanced Blending Surfaces</li> <li>- Surface Analysis</li> <li>- Additional Surface Design Tools</li> </ul>
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#### What is new in this release

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