



Mechanical Design
Solutions

**SMD: CATIA
Generative
Sheetmetal
Design**

Course Code	EDU-CAT-E-SMD-F
Brand & Release	CATIA V5R19
Duration	1 day
Level	Fundamentals

Objectives

	<p>Understand the terminology and the creation process for sheet metal part design</p> <p>Define and manage sheet metal part parameters</p> <p>Design walls, bends and flanges</p> <ul style="list-style-type: none"> - Add features such as cutouts, holes, corners and chamfers - Create standard and user defined stamped features - Manage folded and unfolded views and export a finished flat pattern
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Participants' Profile

	Mechanical Designers, Sheetmetal Designers
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Prerequisites

	CATIA V5 Fundamentals.
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Content

	<p>This course will teach you how to design a sheet metal part using associative feature-based modeling. Standard and user defined stamped features can be integrated into the design and the resulting flat pattern is calculated in accordance with standard bend allowances or with company specific bend allowance tables.</p> <p>Getting Started</p> <ul style="list-style-type: none"> - Introduction to Sheet Metal Design - Generative Sheet Metal Design Overview - Defining Sheet Metal Parameters - Recommendations for Getting Started <p>Sheet Metal Walls</p> <ul style="list-style-type: none"> - What is a Sheet Metal Wall? - Defining the First Wall - Secondary Walls - Part Recognition - Recommendations for Sheet Metal Walls <p>Bends and Unfolded Mode</p> <ul style="list-style-type: none"> - Bends - Unfolded Mode - Corner Relief - Recommendations for Bends <p>Flanges</p>
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A partner of 

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- Creating Flanges
- Recommendations for Flanges

Sheet Metal Features

- Cutouts
- Holes
- Corners and Chamfers
- Standard Stamps
- User-Defined Stamps
- Recommendations for Sheet Metal Features

Transformations and Duplication

- Transformation of Parts
- Patterns
- Mirror
- PowerCopies
- Recommendations for Duplication

Mapping and Output

- Point or Curve Mapping
- Output

Advanced Topics in Sheet Metal

- Sheet Metal Standard Files
- Multi-Body Methodology

Exercises