

2015

Styling@CATIA



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CATIA

THE DIGITAL PRODUCT EXPERIENCE



Contents

Course	Subject	Code	Duration (day)
2.1.6	<u>Styling@CATIA</u>		
	CATIA Styling Design- with Free Style Shaper	CAT-E01	2
	CATIA Styling Design- with Imagine & Shape	CAT-E02	2
	Reverse Engineering	CAT-E03	3

Please do not hesitate to call **MAWEA** at **03-7783 3459** for further info or **FAX to 03-77816818** for registration.

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CATIA

THE DIGITAL PRODUCT EXPERIENCE

CATIA V5 TRAINING – FREESTYLE SHAPER

Venue : MAWEA TRAINING CENTRE (Petaling Jaya, Selangor)

Date : TBC

Duration/Time : 2 Days (9.00 a.m. to 5.00 p.m.)



Introduction

This course will teach you how to create flawless, styled shapes from scratch using three-dimensional free-form curves and surfaces or using digitized data. You will also learn how to analyze and improve the quality of existing curves and surfaces.

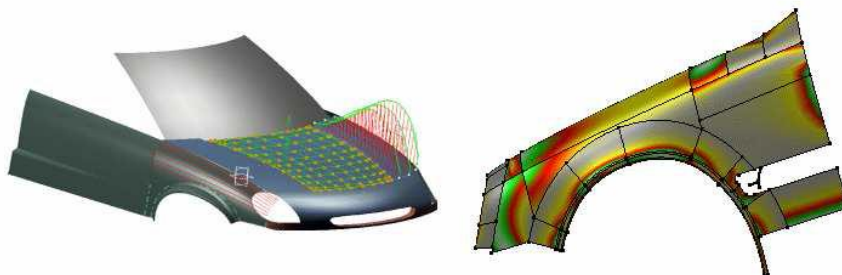
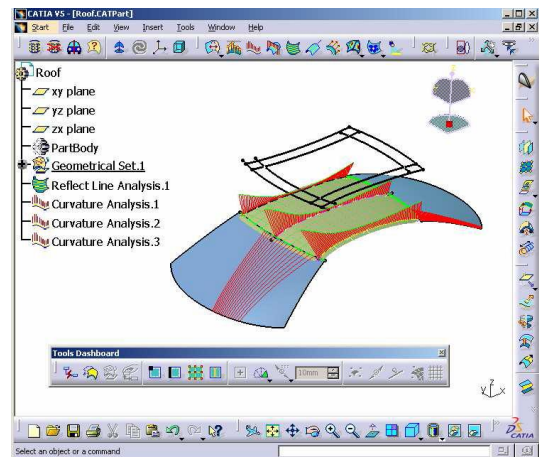
Objectives

In this course you will learn how to:

- Create styled shapes using with digitized data
- Create surfaces using a curve-based approach
- Create surfaces using a surface-based approach
- Analyze and correct curve quality
- Analyze and correct surface quality

Contents

- Introduction to Freestyle Shaper
- Using the Curve-Based Approach
- Using the Surface-Based Approach
- Analysis Tools



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CATIA

THE DIGITAL PRODUCT EXPERIENCE

CATIA V5 TRAINING – IMAGINE AND SHAPE



Venue : MAWEA TRAINING CENTRE (Petaling Jaya, Selangor)

Date : TBC

Duration/Time : 2 Days (9.00 a.m. to 5.00 p.m.)

Introduction

This course will teach you how to use the Imagine and Shape workbench in CATIA to create new product shapes. You will also learn how to improve product styles.

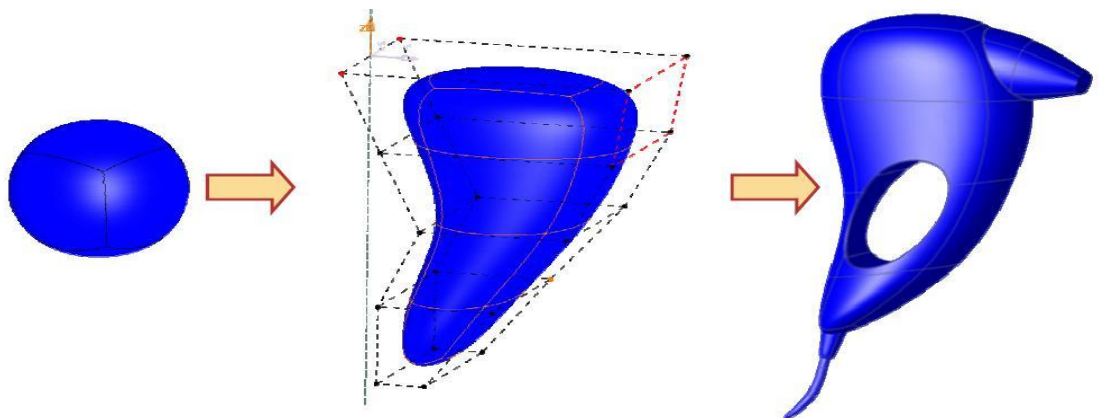
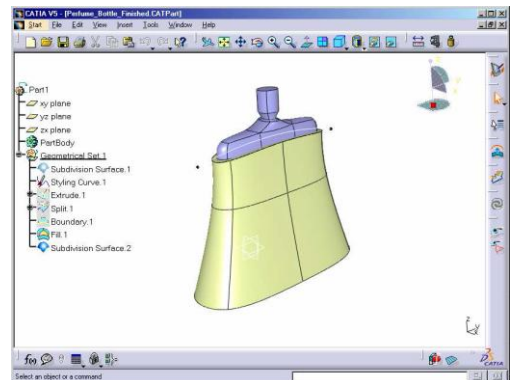
Objectives

Upon completion of this course you will be able to:

- Create and modify curves
- Create subdivision surfaces using tools specific to the Imagine and Shape workbench
- Modify product style surfaces

Contents

- Introduction to CATIA Imagine and Shape
- Curve Modeling
- Surface Modeling
- Operations
- Imagine and Shape Recommendations



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CATIA

THE DIGITAL PRODUCT EXPERIENCE

CATIA V5 TRAINING – REVERSE ENGINEERING MODELING

Venue : MAWEA TRAINING CENTRE (Petaling Jaya, Selangor)

Date : TBC

Duration/Time : 3 Days (9.00 a.m. to 5.00 p.m.)



Introduction

CATIA V5 Reverse Engineering makes it possible to quickly capture physical prototype shapes in order to enhance their style, making the 3D virtual model the design reference. It provides powerful technologies in the CATIA environment enabling to easily manipulate clouds of points and quickly transform them into high-end 3D surface shapes.

This course introduces you to the CATIA Digitized Shape Editor interface and basic tools. You will be taught how to import the digitized data (scans or clouds of points) and you will familiarize yourself with the Mesh Creation and extracting characteristic curves. You will know how to use CATIA features in Quick Surface Reconstruction workbench in the Reverse Engineering phase to create surfaces using a given Point Cloud data.

Objective

- Handling Digitized Point Cloud Data.
- Create Styled Shapes using Digitized Data.
- Create Surfaces using Curve-based or Surface-based approach.
- Analyze and Correct Surface Quality.

Contents

CATIA Digitized Shape Editor

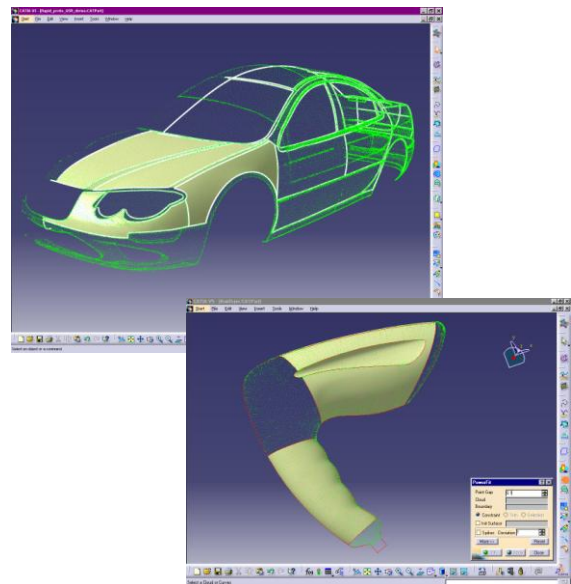
- Import and Process Digitized Point Cloud data.
- Scan and Curve Creation

Quick Surface Reconstruction

- Extract Characteristic Curves from the Scan data.
 - Creating Curve and Sketched from Scans.
 - Adjust Nodes
 - Curvature Analysis
- Creating Surfaces
 - Creating a Canonical Surfaces
 - Creating a Free Form Surfaces

Freestyle Shaper Workbench

- Freestyle Dashboard
- Curve Creation
- Surface Creation using Curves
- Surface/Shape Modification
- Performing Operations on Surfaces



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