

2015

Manufacturing@CATIA



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CATIA

THE DIGITAL PRODUCT EXPERIENCE



Contents

Course	Subject	Code	Duration (day)
2.1.7	Manufacturing@CATIA		
	2-axis Prismatic Machining + Test Cut	CAT-F01	3+1
	3-axis Surface Machining + Test Cut	CAT-F02	3+1
	5-axis Machining	CAT-F03	2

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

MAWEA INDUSTRIES SDN. BHD. (356204-A)

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CATIA

THE DIGITAL PRODUCT EXPERIENCE

CATIA V5 TRAINING – CATIA MACHINING 2-AXIS PRISMATIC MACHINING (NCI,PMG)



Venue : MAWEA TRAINING CENTRE (Petaling Jaya, Selangor)

Date : TBC

Duration/Time : 4 Days (9.00 a.m. to 5.00 p.m.)

Introduction

This course will teach you how to define and manage NC programs dedicated to machining parts using Prismatic Machining techniques in the Prismatic Machining (PMG) workbench. You will learn to create 2.5 Axis Milling operations. You will also learn to use the PMG functionalities for creating Prismatic Machining and Rework Areas.

Objective

Upon completion of this course you will be able to:

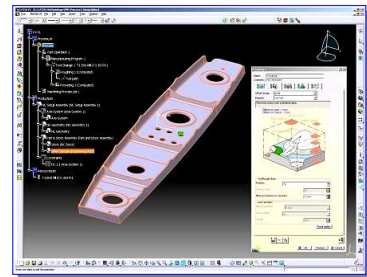
- Identify and use the Prismatic Machining workbench tools
- Define Prismatic Machining operations (2.5- Axis Milling) in CATIA V5
- Create Prismatic Machining Area and Rework Area
- Define and modify NC Macros

Contents

1st Day – 2nd Day- Numerical Control Infrastructure (NCI)

- Upon completion of this course you will be able to:
 - Identify and use the Manufacturing workbenches' tools
 - Create a Manufacturing Program
 - Simulate a Manufacturing Program
 - Manage Tools and Tool Catalogs
 - Define and verify the Tool Path
 - Generate NC data using an integrated Post Processor
 - Create shop floor documentation
 - Manage design changes
 - Import V4 data

PMG



2nd Day & 3th Day- Prismatic Machining (PMG)

Milling operations

- Facing
- Pocketing
- 4-Axis Pocketing
- Prismatic Roughing
- Profile contouring
- Groove milling
- Point to point
- Curve following
- Prismatic rework area
- Prismatic machining area
- Transition Paths (macros)

4th Day- Test cut

- Material preparation for clamping in vice
- Clamping material on the vice
- Cutting tool holder preparation
- Cutting tool loading into machine's tools magazine
- Cutting tool setup
- Origin / datum setup
- Actual cutting on machine
- Machine Basic operation
- Machine controlling
- Cutting conditions
- *QC

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CATIA

THE DIGITAL PRODUCT EXPERIENCE

CATIA V5 TRAINING – CATIA MACHINING 3-AXIS SURFACE MACHINING (NCI,SMG)

Venue : MAWEA TRAINING CENTRE (Petaling Jaya, Selangor)

Date : TBC

Duration/Time : 4 Days (9.00 a.m. to 5.00 p.m.)



Introduction

This course will teach you how to use various functionalities common across all the Machining workbenches in CATIA. It will teach you the fundamentals of creating and simulating a Manufacturing Program. You will also learn how to define and manage NC programs dedicated to machining parts that are designed with Surface or Solid geometry. You will learn how to define 3-Axis Roughing, Semi finishing and finishing operations. The course will also help you to improve productivity in mould and die machining using various functionalities of 3-Axis Surface Machining.

Objective

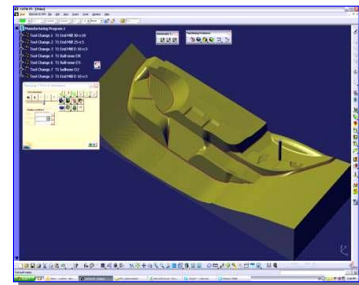
Upon completion of this course you will be able to:

- Identify and use the Surface Machining workbench tools
- Define 3-Axis Surface Machining operations
- Create a Machining Area before performing the operations
- Define a Rework Area
- Analyze and modify the Tool Path

Contents 1st Day - Numerical Control Infrastructure (NCI)

- Upon completion of this course you will be able to:
 - Identify and use the Manufacturing workbenches' tools
 - Create a Manufacturing Program
 - Simulate a Manufacturing Program
 - Manage Tools and Tool Catalogs
 - Define and verify the Tool Path
 - Generate NC data using an integrated Post Processor
 - Create shop floor documentation
 - Manage design changes
 - Import V4 data

SMG



4th Day- Test cut

2nd – 3rd Day - Multi Axis Surface Machining (SMG)

- Introduction to the 3-Axis Surface Machining
- Creating geometrical elements
- Creating a Machining Feature
- Creating 3-Axis Surface Machining Operations
 - Sweep Roughing Operation
 - Roughing Operation
 - Plunge Milling
 - Sweeping Operation
 - 4-Axis Curve Sweeping Operation
 - Pencil Operation
 - Zlevel Operation
 - Contour-driven Operation
 - Isoparametric machining Operation
 - Spiral milling Operation
- Profile Contouring Operation
- Probing Operations
- 3/5-Axis Converter
- Analysing and modifying tool path
- Material preparation for clamping in vice
- Clamping material on the vice
- Cutting tool holder preparation
- Cutting tool loading into machine's tools magazine
- Cutting tool setup
- Origin / datum setup
- Actual cutting on machine
- Machine Basic operation
- Machine controlling
- Cutting conditions

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CATIA

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CATIA V5 TRAINING – CATIA MACHINING 5-AXIS MULTI AXIS MACHINING (NCI,MMG)

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 various functionalities common across all the Machining workbenches in CATIA. It will teach you the fundamentals of creating and simulating a Manufacturing Program. You will also learn how to create high quality NC programs for machining complex 3D parts and free-form shapes using Multi-Axis machining techniques. The course also teaches you to define 5-Axis machining operations.

Objective

In this course you will learn how to define and manage NC programs to machine Surface or Solid geometry using 5-Axis machining techniques.

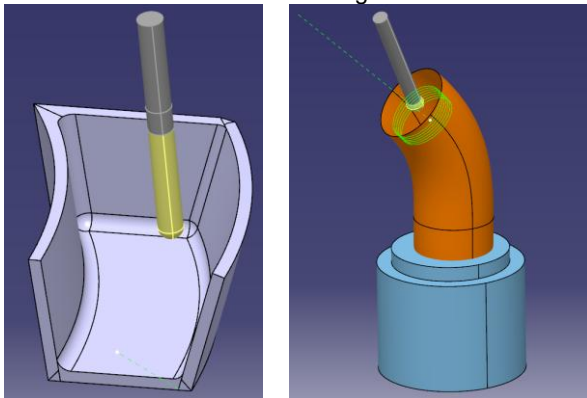
Contents

1st Day - Numerical Control Infrastructure (NCI)

- Upon completion of this course you will be able to:
 - Identify and use the Manufacturing workbenches' tools
 - Create a Manufacturing Program
 - Simulate a Manufacturing Program
 - Manage Tools and Tool Catalogs
 - Define and verify the Tool Path
 - Generate NC data using an integrated Post Processor
 - Create shop floor documentation
 - Manage design changes
 - Import V4 data

2nd Day - Multi-axis Surface Machining (MMG)

- Upon completion of this course you will be able to:
 - Identify and use the Multi-Axis Surface Machining workbench tools.
 - Define 5-Axis machining operations such as Multi-Axis Sweeping, Multi-Axis Contour Driven, Multi-Axis Curve Machining, Multi-Axis Isoparametric Machining, Multi-Axis Drilling and Multi-Axis Tube Machining.



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