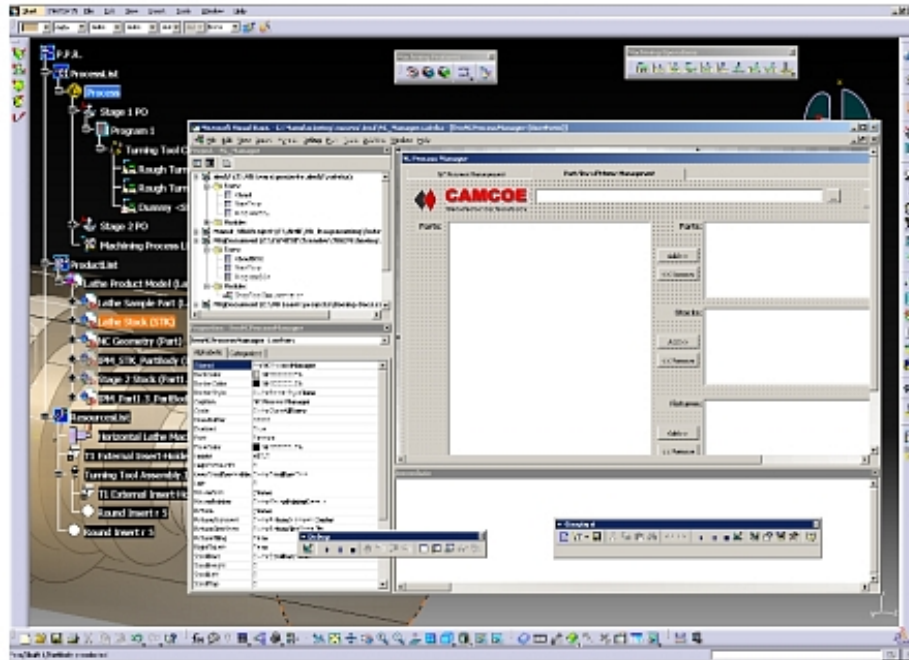# CATIA V5 – Visual Basic for CATIA V5 NC Course

CATIA V5, VB6

Duration: 5 days – (40 Hrs)

Overview:

This is a very unique specialty course in which students will learn to utilize the automation capabilities of CATIA V5 with particular focus on NC applications On the simplest level the students will explore macros and simple automation techniques employed in the design aspects of CATIA V5. There will be an introduction to Visual Basic 6 that covers programming techniques, forms, controls, arrays, strings and more. Users will then learn about the CATIA V5 API and will get a good understanding of what functionality can be automated using Macros, VBScript, and VB6 Applications. They will be given the opportunity to explore the automation of modeling processes and assembly design with a focus of extracting and manipulating information stored in CATIA V5 Parts, Products and Processes.

Prerequisites:

Participants must possess basic working knowledge of CATIA V5 and ought to be proficient in Sketcher, Part Design and Assembly Design. Students should have a understanding of programming in a language, VB, VBScript, C, C++. Users are to have CATIA V5 and VB6 or the use of VBA inside CATIA V5.

Topics Covered:

A.M.	P.M.
Day 1	
* **CATIA V5 Automation Overview / Languages – 30 mins.** * **Supported Languages – 30 mins.** * **CATIA V5 Macros – 60 mins.** * **CATIA V5 API – 60 mins.** * **Exercises – 60 mins.**	* **VB6 – Introduction / Environment – 30 mins.** * **VB6 – Projects/ Code Window – 10 mins.** * **VB6 – Boolean Expressions/String Comparison 10 mins.** * **VB6 – IF / Then / ElseIf / Select Case – 30 mins.** * **VB6 – Variables (Static, Global) – 10 mins.** * **VB6 – Controls – 30 mins.** * **VB6 – Arrays – 60 mins.** * **VB6 – String Manipulation – 30 mins.** * **VB6 – Date functions – 30 mins.**
Day 2	
* **CATIA V5 – Project – (Rename Me)** * **Overview of Requirements – 30 mins.** * **Project Creation and Environment Definition – 30 mins.** * **Error Trapping and CATIA V5 Linking – 30 mins.** * **Variable Declarations – 30 mins.** * **CATIA V5 API – Discussion – 30 mins.** * **CATIA V5 Entity Selections Coding – 30 mins.** * **Debugging and Exercise Wrap Up – 60 mins.**	* **CATIA V5 – Project – (Design Integration)** * **Overview of Requirements – 30 mins.** * **Project Creation and Environment Definition – 30 mins.** * **Error Trapping and CATIA V5 Linking – 30 mins.** * **Variable Declarations – 30 mins.** * **CATIA V5 API – Discussion – 30 mins.** * **CATIA V5 Entity Selections Coding – 30 mins.** * **Debugging and Exercise Wrap Up – 60 mins.**
Day 3	
* **CATIA V5 – Project – (BOM)** * **Overview of Requirements – 30 mins.** * **Project Creation and Environment Definition – 60 mins.** * **Creating Forms and Control – 60 mins.** * **Error Trapping and CATIA V5 Linking – 30 mins.**	* **CATIA V5 – Project – (BOM)** * **Variable Declarations – 60 mins.** * **CATIA V5 API – Discussion – 60 mins.** * **CATIA Entity Selections Coding – 60 mins.** * **Debugging and Exercise Wrap Up – 60 mins.**
Day 4	
* **CATIA V5 Project (Formatting and Manipulating Data)** * **Overview of Requirements – 30 mins.** * **Project Creation and Environment Definition – 30 mins.** * **Error Trapping and CATIA V5 Linking – 30 mins.** * **Variable Declarations – 30 mins.** * **CATIA V5 API – Discussion – 30 mins.** * **CATIA V5 Entity Selections Coding – 30 mins.** * **Debugging and Exercise Wrap Up – 60 mins.**	* **CATIA V5 – Project – (Geometry Creation)** * **Overview of Requirements – 30 mins.** * **Project Creation and Environment Definition – 30 mins.** * **Error Trapping and CATIA V5 Linking – 30 mins.** * **Variable Declarations – 30 mins.** * **CATIA V5 API – Discussion – 30 mins.** * **CATIA V5 Entity Selections Coding – 30 mins.** * **Debugging and Exercise Wrap Up – 60 mins.**
Day 5	
* **CATIA V5 Session Student Driven Examples - 240 mins.**	* **CATIA V5 Session Student Driven Examples - 150 mins.** * **User questions and training wrap up – 90 mins**

For course schedules and pricing, kindly contact us at: training@camcoe.com

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