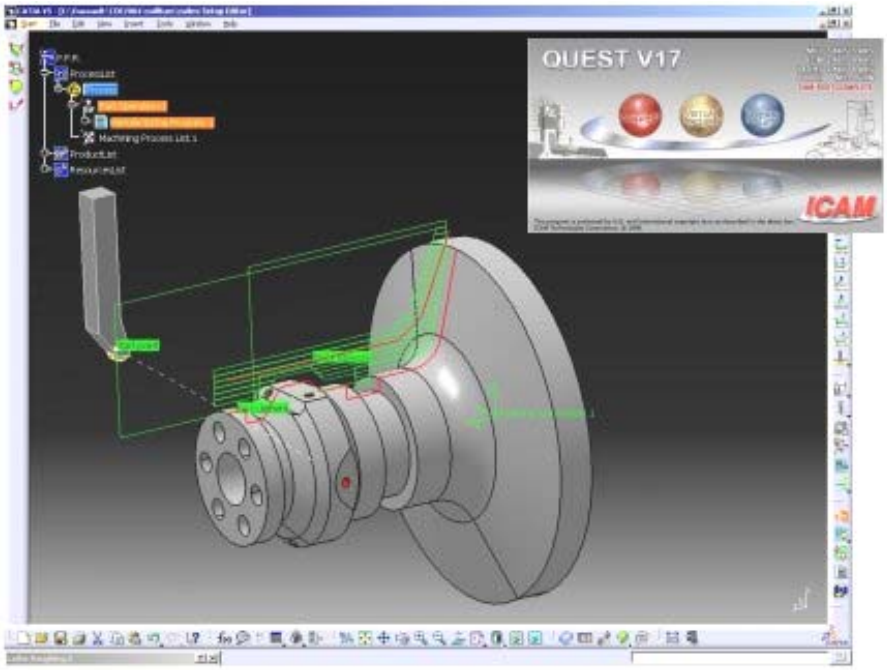
CATIA V5 / CAMPOST – Mill / Turn Course

NCI, PMG, SMG, AMG, LMG, MLG, CAMPOST



Duration: 4 days – (32 Hrs)

Overview:

This course is customized towards users adept with the CATIA V5 NC milling and turning workbenches (NCI, PMG, SMG, AMG, LMG, MLG). Users completing this course will learn to use the CATIA V5 / CAM-POST integrated platform to perform multi-axis Mill/Turn machining capabilities and also develop and use ICAM post processors for generating Mill/Turn NC programs. Users will learn to define and manage Mill/Turn machining operations, being aware of all capabilities in terms of strategies, parameters, transition paths, toolpath output customization etc. They will also learn how to define and manage NC programs dedicated to machining parts designed with Surface or Solid geometry using the CATIA PMG, SMG, AMG, LMG, MLG workbenches. Users will learn to apply and use their CATIA tool path output by developing and customizing Mill/Turn NC post processors with CAM-POST. Finally, they will be mentored on best practices approach for integrating CATIA V5/CAM-POST to efficiently generate and manage NC code output for unique Mill/Turn machine / controller combinations.

Prerequisites:

Participants must possess basic knowledge of CATIA V5 environment with working ability in Sketcher, Part Design, Assembly Design, PMG, SMG, AMG, LMG. Good knowledge of machining practices is desired.

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Topics Covered:

A.M.	P.M.
Day 1	
* CATIA V5 – NC Manufacturing Review – 45 mins. * PMG Workbench Review – 90 mins. * Axial Operations – 45 mins. * Tool Path Verification – 30 mins. * Generating Outputs (APT Source – NC Code) – 30 mins.	* SMG Workbench Review – 90 mins. * AMG Workbench Review – 90 mins. * Auxiliary Operations – 30 mins. * Applying Feeds, Speeds and Coolants – 30 mins.
Day 2	
* LMG Workbench Review – 60 mins * MLG Workbench Review – 60 mins. * Transition Paths (macros) – 20 mins. * PP commands – 30 mins. * Machining Axis change – 20 mins. * Tool Catalog - Creation/Import/Use – 30 mins. * Tool path Editor – 20 mins.	* Machine Rotations – 30 mins. * CATIA NC Mfg internal variables – 30 mins. * PP Table Customization – 30 mins. * Creating Machining Processes – 60 mins. * Understanding Manufacturing View – 30 mins. * Creating custom CATIA Mill/Turn Workbench – 30 mins. * Customizing Mill/Turn Toolbars in CATIA – 30 mins.
Day 3	
* CAM-POST – Post Processing Introduction – 60 mins * Creating Posts with CAMPOST Wizard – 60 mins. * CAM-POST Quest and Gener Use – 60 mins. * Using RMD for macro creation – 60 mins.	* Registers and Formats – 60 mins. * Introduction to Macro Language – 120 mins. * Using SDL for macro creation – 60 mins.
Day 4	
* More user defined macros – 60 mins. * Startup / Shut down Procedures – 60 mins. * Introduction/use of PP Functions – 120 mins.	* CATIA / CAM-POST – NC Mfg Customization – 240 mins. Tool Length Compensation, Tool Diameter Compensation, Fixture Compensation, Canned Cycles, Linear and Circular Interpolation, Home Point, Feedrates, Spindle commands, Coolant commands, Arc fitting, High Speed Machining etc.
Day 5	
* Developing Composite Post processors – 60 mins. * Live Spindle Management – 60 mins. * Multi turret management – 60 mins. * Other Mill/Turn Functionalities – 60 mins	* CATIA / CAMPOST Settings & Administration – 120 mins. * Best Practices Approach for NC Data Output – 60 mins. * User Question and Answer Session – 60 mins.

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

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