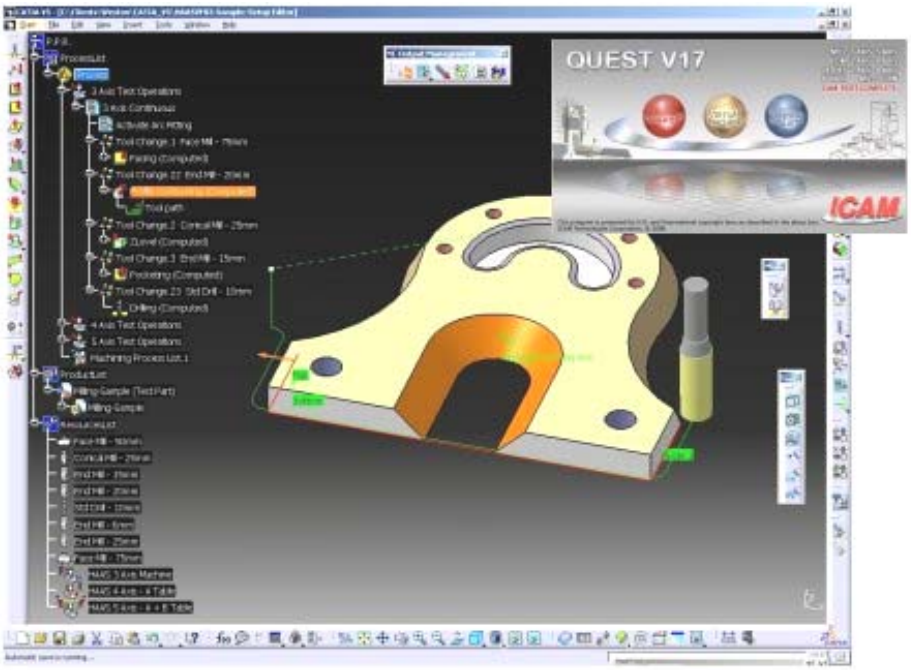
CATIA V5 / CAMPOST - Milling Course

NCI, PMG, SMG, NVG, CAMPOST



Duration: 5 days – (40 Hrs)

Overview:

At the end of this course, students will learn to utilize the CATIA V5 / CAM-POST integrated platform with 2.5 to 4-axis machining capability and also develop and use ICAM post processors for generating NC programs. Participants will learn to define and manage prismatic and surfacing operations, being aware of all capabilities in terms of strategies, parameters and transition paths. They will also learn how to define and manage NC programs dedicated to machining parts designed with Surface or Solid geometry using the CATIA V5 PMG and SMG workbenches. Finally, users will learn how to develop and customize NC post processors with CAM-POST to efficiently generate and manage NC code output for particular machine / controller combinations.

Prerequisites:

Participants must possess basic working knowledge of CATIA V5 and ought to be proficient in Sketcher, Part Design and Assembly Design. Basic knowledge of machining practices and exposure to CATIA V5 NC benches is required.

Topics Covered:

A.M.	P.M.
Day 1	
* CATIA V5 – NC Mfg Workbench Presentation – 30 mins. * Part Operation, Manufacturing Programs – 30 mins. * Facing Operation – 60 mins. * Pocketing Operation – 90 mins. * Curve following – 30 mins.	* Profile contouring – 60 mins. * Groove Milling – 30 mins. * Point to point Operation – 30 mins. * Transition Paths (macros) – 60 mins. * Axial Operations – 60 mins.
Day 2	
* Auxiliary Operations – 30 mins. * PP commands – 30 mins. * Tool Path Verification – 30 mins. * Generating Outputs (APT Source - NC Code) – 45 mins. * Prismatic Roughing – 45 mins. * Roughing Operation – 60 mins.	* Machining/Slope Area Creation – 30 mins. * Zone and Offset Area creation – 30 mins. * Sweep Roughing Operation – 60 mins. * Rework Area Creation – 60 mins. * Tool Management – 60 mins.
Day 3	
* Sweeping Operation – 60 mins. * Pencil Operation – 60 mins. * Z-level Operation – 60 mins. * Machining Axis change – 30 mins. * Machine Rotations – 30 mins.	* Contour-driven Operation – 60 mins. * Isoparametric Machining – 60 mins. * Spiral Milling Operation – 60 mins. * PP Table modification – 30 mins.
Day 4	
* CAM-POST – Introduction to Post Processing – 60 mins. * Creating Posts with CAM-POST Wizard – 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 – 120 mins.
Day 5	
* Introduction & Use of PP Functions – 150 mins. * CATIA / CAM-POST – NC Mfg Customization – 90 mins. Tool Length Compensation, Tool Diameter Compensation, Fixture Compensation, Canned Cycles, Linear and Circular Interpolation, Home Point, Feedrates, Spindle commands, Coolant commands, Arc Fitting etc.	* CATIA / CAM-POST 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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