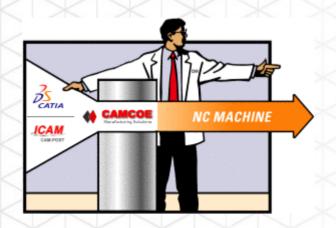




CATIA V5 NC Manufacturing Services







NC Manufacturing Services

All CAMCOE NC Mfg services are provided through Dassault Systemes Inc

- Standard and Custom Training on all CATIA V5 NC modules
- Complete implementation services on CATIA V5 NC Mfg
- CATIA V4 to CATIA V5 NC transition services
- Legacy NC methodology mapping to CATIA V5
- NC Post Processor development services
- NC Control Emulator development services
- Machine tool simulation and verification services
- OEM Services for NC machine manufacturers
- NC Auditing Services
- NC Technical Support Packages



















CATIA V5

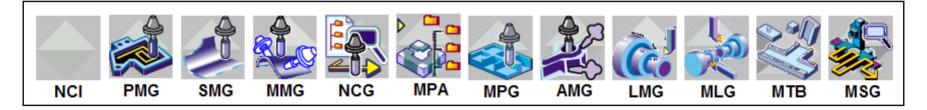


CATIA V5 NC Training - Standard

Providing standard CATIA V5 NC Training on



- NCI NC Manufacturing Infrastructure
- NCG NC Manufacturing Review
- PMG Prismatic Machining
- SMG 3 Axis Surface Machining
- MMG Multi-Axis Surface Machining
- MPG Multi Pocket Machining
- AMG Advanced Machining
- NVG NC Manufacturing Verification
- MPA Prismatic Preparation Assistant
- MBG NC Machine Tool Builder
- MSG NC Machine Tool Simulation



CATIA V5

CATIA V5 NC Training - Custom

Providing Customized NC Training on

CATIA V5 - NC Manufacturing Courses

- Standard Milling Course
- Advanced Milling Course
- Standard Lathe Course
- Advanced Lathe Course

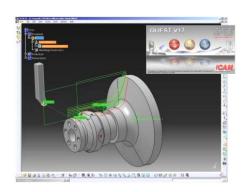
CATIA V5 / CAMPOST- Implementation Courses

- Milling Implementation Course
- Advanced Implementation Course
- Lathe Implementation Course
- Mill / Turn Implementation Course

CATIA V5 - Primary Courses

- Design for NC Course
- Visual Basic for NC Course
- Mold Tooling Design for NC Course
- Automation for NC Course







NC Manufacturing Setup Services

Providing NC Setup services for CATIA V5 NC Mfg

For New CATIA V5 Clients



- CATIA V5 NC Module selection based on requirements
- Setup of CATIA NC setup files based on company standards
- Configuration of CATIA V5 Machining Environment and CATSettings
- Setting up CATIA V5 to work with upstream and downstream programs
- Data files management under the PPR Structure
- Creation and management of NC data (Part, NC Geometry etc)
- Creation and management of Fixtures
- Methodology for creating and managing the NC CATProduct master assembly
- NC data output settings management (PPTables, APT format, NC data output)
- Complete development and integration of Post Processors for CATIA V5
- Design and development of machine tool model for simulation
- Development and integration of Control Emulator for NC data simulation



NC Implementation Services

Providing complete implementation services for CATIA V5 NC Mfg

- Setup of CATIA V5 Machining Environment and CATSettings
- Data files management under the PPR Structure
- NC Data (Part, NC geometry etc) Creation and management methodology
- Techniques for Creation and management of Fixtures
- Methodology for creating and managing the NC CATProduct master assembly
- Creation and management of CATProcess template seed models
- Customer specific NC Programming methodology
- NC programming corporate knowledge capture and reuse
- Methods for creating and maintaining Tool catalogs
- Techniques for creating preplans and NC shop floor documentation
- Management and propagation of design changes in NC Programming environment
- NC data output settings management (PPTables, APT format, NC data output)
- Custom development of NC Post Processors for all types of NC machines
- Installation, testing of custom posts and generation of NC data for machines
- Creation of validation and certification scenarios for CATIA V5 release level image





NC Post Processing Services

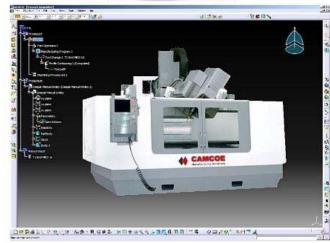
NC Post Processing Services

Facilities using CATIA V5 for manufacturing will require NC post processors to generate NC programs from the NC workbenches.

We provide custom NC post processor development, consulting and implementation services for the following types of NC machines

- Multi-Axis Milling Machines
- Lathes, Merging Lathes
- Multi-Axis Mill/Turn Centres
- Wire EDM
- Punch press
- Laser/Plasma/Flame cutters
- Multi-Axis Waterjet Machines
- Hybrid and Special Application NC Machines



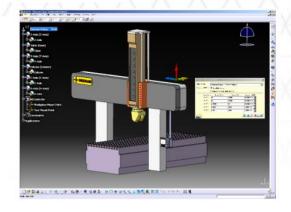




Additional Services - NC Simulation, NC Auditing

Providing NC Simulation Services for CATIA V5 NC Mfg

- Training and Support on MTB, MSG
- Complete Modeling of NC Machine Tool
- Development of Control Emulator for NC Simulation
- Implementation services for NC Simulation



Providing NC Auditing Services for CATIA V5 NC Mfg

- Review of NC setup and structure
- Analysis of current procedures and bottlenecks
- Detailed reports for improvement and implementation





NC Technical Support Plans - Monthly, Annual

Benefits of the NC Technical Support Packages

- Direct support of Dassault Systemes (software developer)
- Constant, consistent and reliable technical support
- Highly qualified and experienced NC Resources
- North America based NC Resources and hotline support
- Dedicated NC Resource for Technical Support
- Have a direct link to the CATIA NC development team
- Customized Support Plans for Client Requirements (monthly, annual)
- Constant improvement and updating of existing methodologies
- Receive immediate attention to any critical NC issues
- Expedited follow up, testing and validation of bugs and issues
- Provide insight into forthcoming NC Mfg features and modules
- Stay abreast with new enhancements features and functions
- Awareness of user techniques of other CATIA V5 NC users





Contact Information

Dassault Systèmes Inc

215, St-Jacques St. West, Suite 500

Montreal, Quebec,

CANADA H2Y 1M6

Tel: (514) 940-2949

Fax: (514) 940-1399

http://www.3dplm.com/services

Business & Management Enquiries

Isaac Benzaquen

Director, Americas Industry Solutions

Phone: (514) 448 7741 Fax: (514) 940 1399

E-Mail: Isaac.BENZAQUEN@3ds.com

CAMCOE Manufacturing Solutions Inc

5181 Dauville Ave,

Pierrefonds, Quebec,

CANADA H9K1E8

Tel: (514) 626 0506

Fax: (514) 626 0506

http://www.camcoe.com

Business & Technical Enquiries

Deepak Manuel

Senior CATIA V5 NC Specialist

Phone: (514) 626 0506

Fax: (514) 626-0506

E-Mail: deepak@camcoe.com

