



CAD/CAM CONSULTING SERVICES INC.

SALES · SERVICE · SUPPORT

Mastercam® Mill Version X2 Training

Class I: Wireframe Toolpaths

- 1.) **Mastercam Interface**
 - a. Menu system
 - b. File menu
 - c. Toolbars/hotkeys
- 2.) **Wireframe Construction & Toolpaths**

projects include:

 - a. 2D/3D wireframe constructions and modifications
 - b. Introduction to chaining
 - c. Single and multiple pass contour toolpaths
 - d. Contour Remachining
 - e. 2D/3D automatic chamfering
- 3.) **Introduction to Tool Definition & Operations Manager**
 - a. Changing parameters for an operation
 - b. Regenerating associative toolpaths

Class III: Wireframe Toolpaths (cont.) & Operations Manager

- 1.) **Wireframe Construction & Toolpaths (cont.)**

projects include:

 - a. Additional 3D wireframe constructions and modifications
 - b. Advanced pocket toolpaths
 - c. Advanced drill toolpaths
 - d. Geometry selection from solid models
- 2.) **Advanced Operations Manager**
 - a. Undeleting an operation
 - b. Sorting operations
 - c. Grouping operations
 - d. Expanding and collapsing the operations list
 - e. Importing/Exporting operations
 - f. Customizing the Operations Manager display
 - g. Displaying selected operations
- 3.) **Posting operations**
 - a. NCI file
 - b. Post processing
 - c. Communications

Class II: Wireframe Toolpaths (cont.)

- 1.) **Wireframe Construction & Toolpaths (cont.)**

projects include:

 - a. Additional 3D wireframe constructions and modifications
 - b. Job setup
 - c. Contour ramping
 - d. Facing toolpaths
 - e. Basic pocket toolpaths
 - f. Basic drill toolpaths
- 2.) **Additional Tool Definition and Operations Manager**
 - a. Moving and copying operations
 - b. Deleting operations
 - c. Editing common operation parameters
 - d. Changing the tool for an operation
 - e. Backplot & verify toolpaths

Class IV: Introduction to surfaces

- 1.) **Basic Surface Creation**
 - a. Surface types
 - b. Ruled surfaces
 - c. Loft surfaces
 - d. Coons surfaces
 - e. Revolved surfaces
 - f. Swept surfaces
 - g. Draft surfaces
- 2.) **Derived Surface Creation**
 - a. Fillet surfaces
 - b. Offset surfaces
 - c. Trim/extended surfaces
 - d. Blend surfaces

Class V: Introduction to Surface Machining

- 1.) **Drive/Check Surfaces**
 - a. Description
 - b. Defining
- 2.) **Rough Toolpaths and Parameters**
 - a. Parallel
 - b. Radial
 - c. Project
 - d. Flowline
 - e. Contour
 - f. Pocket
 - g. Plunge
- 3.) **Finish Toolpaths and Parameters**
 - a. Parallel steep
 - b. Shallow
 - c. Pencil
 - d. Leftover
 - e. Scallop
- 4.) **Miscellaneous Surface**
 - a. Gap/edge settings
 - b. Recut
 - c. Batch

Mastercam
Authorized Dealer

Corporate Office:
Orange County:
Inland Empire:

996 Lawrence Drive, Suite 101
2940 E La Cresta Ave.
1717 South Grove Ave.

Newbury Park, CA. 91320-1506
Anaheim, CA 92806-1833
Ontario, CA 91761-4530

Visit our WEB page: URL <http://www.cad-cam.com>

805.375.7676
714.847.6890
909.923.9299

Fax 805.375.7678
Fax 714.847.6833
Fax 909.923.9293

e-mail us at: sales@cad-cam.com