



## Fanuc – Milling

| <b>Day 1</b>  | <b>Start</b> | <b>Finish</b> |
|---|--------------|---------------|
|   | 9:00am       | 4:00pm        |
| General Layout of Machine & Keyboard Explanation          |              |               |
| Axes Configuration.                                       |              |               |
| Program Memory Arrangement                                |              |               |
| How to edit a program and create new                      |              |               |
| Tool Offsets  |              |               |
| Work Offsets  |              |               |
| G10 Programmable data input                               |              |               |
| How To Start making a Program. Safe Start.                |              |               |
| G20-G21 Inch-Metric, G40, etc.                            |              |               |
| G Code Description Type A, B or C.                        |              |               |
| M code descriptions                                       |              |               |
| Other addresses explained                                 |              |               |
| G94-G95 Feed/mm - Feed/rev.                               |              |               |
| <b>Day 2</b>  | <b>Start</b> | <b>Finish</b> |
|   | 9:00am       | 4:00pm        |
| G00-G01 Rapid Traverse & Feed Rate Commands.              |              |               |
| Absolute & Incremental Programming, G90 & G91             |              |               |
| G02-G03 Circular Interpolation using "R", "I" & "J".      |              |               |
| G17-G18-G19 Plane Selection                               |              |               |
| Helical Interpolation.                                    |              |               |
| G28 Reference Point return.                               |              |               |
| G30 Setting 2nd, 3rd, 4th Reference Point return.         |              |               |
| Test piece for G01 - absolute and incremental             |              |               |
| Test piece for G02/G03 - absolute and incremental         |              |               |
| How To End a Program. M02, M30.                           |              |               |
| M98-M99 Sub-Program use & nesting.                        |              |               |
| G43 & H Offset  |              |               |
| G41-G42 Cutter Compensation                               |              |               |
| G80-G89 Canned Cycles for Drilling, Tapping & Boring etc. |              |               |
| G98-G99 Initial & Return Heights                          |              |               |
| G04 Dwell   |              |               |
| Test Piece 1  |              |               |

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| <b>Day 3</b>  | <b>Start</b> | <b>Finish</b> |
|---|--------------|---------------|
|   | 9:00am       | 4:00pm        |
| Rigid Tapping Function & Explanation.                                   |              |               |
| Test Piece 2  |              |               |
| Test Piece 3  |              |               |
| C, R & A Direct Drawing Input.  |              |               |
| C & R Chamfer Corner Radius Function.                                   |              |               |
| Test Piece 4  |              |               |
| Test Piece 5  |              |               |
| Inputting and Outputting Programs (RS232 / Mem Card)                    |              |               |
| Backing up the control  |              |               |
| P/S Alarms  |              |               |
| Brief Explanation of Macro Programming & uses. (See also Macro Course). |              |               |
| Program your own component (if time left)                               |              |               |