



PROGRAMMING COURSE

**Course title : T1 Turning Course Training Module for Fanuc Controls
OT/16T/18T/21T /30T (Basic).**

For Basic Turning.

Course length : 2.5 days **Course cost : £450.00 (+ VAT)**

Day 1: Monday

Start Time

Finish Time

General Layout of Machine, Control & P.M.C. Keyboard Explanation.
 Axes Configuration.
 G28 Reference Point return.
 G30 & G130 Setting 2nd Reference Point return.
 Absolute & Incremental Programming, "U" & "W".
 Work Shift Setting & G10 use.
 Work Co-ordinates G54~G59 & G10 use.
 How To Start making a Program. Safety Start.
 G20~G21 Inch~Metric, G40, etc.
 G Code Description Type A, B or C.
 Memory Arrangement and Size Calculation.
 G00~G01 Rapid Traverse & Feed Rate Commands.
 G98~G99 Feed/rev & Feed/mm.
 G50~G92 Clamping Maximum Spindle Speeds.
 G02~G03 Circular Interpolation using "R", "I" & "K".
 G70, G71, G72, & G73 Multi-Rep Cycles.
 C & R Chamfer Corner Radius Function.
 C, R & A Direct Drawing Input
 G96~G97 Constant Surface Speed Control.
 How To End a Program. M02, M30.
 Programming Examples using the above data.

9:30 AM

5:00 PM

Day 2: Tuesday

Start Time

Finish Time

G32~G92 & G76 Tapping & Threading Cycles.
 G84 Canned cycle for Tapping.
 M98~M99 Sub-Program use & nesting.
 G74~G75 Canned Cycles for Grooving & Drilling.
 G83 Canned cycle for drilling.
 G90~G94 Canned Cycles Roughing, & Facing.(if required).
 G41~G42 Cutter Compensation, Imaginary Tool Points.
 Applying & Cancelling Tool Offsets, Geometry & Wear.
 G10 Programmable Offset Input.
 G54~G59 Work Co-Ordinate selection, Setting Work Shift.
 G22~G23 Stored Stroke Protected Area.
 Manual Guide Use & Fixed Forms (if applicable).
 M Codes explanation (relative to the machine and available options).
 Programming Examples using the above data.

9:00 AM

5:00 PM

Day 3: Wednesday

Start Time

Finish Time

Brief Explanation of Macro Programming & uses. (See also Macro Course).
 Editing Programs. Copy, Move & Merge Functions (if available).
 Programs Input & Output through RS232C, Baud Rate Setting, Stop Bits etc.
 Tail-stock Programming (if applicable).
 Programming of Manual Guide.
 Setting Up Fixed Forms.
 Tool life management (Optional)

9:00 AM

1:00 PM