

Fanuc – Turning

Day 1	Start	Finish
	9:00am	4:00pm
<p>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 G98-G99 Feed/rev & Feed/mm. G50-G92 Clamping Maximum Spindle Speeds.</p>		
Day 2	Start	Finish
	9:00am	4:00pm
<p>G00-G01 Rapid Traverse & Feed Rate Commands. G02-G03 Circular Interpolation using “R”, “I” & “K”. Absolute & Incremental Programming, “U” & “W”. G17-G18-G19 Plane Selection G28 Reference Point return. G30 Setting 2nd, 3rd, 4th Reference Point return. Test piece for G01 - absolute and inc Test piece for G02/G03 - absolute and incremental How To End a Program. M02, M30. M98-M99 Sub-Program use & nesting. G22-G23 Stored Stroke Protected Area. G41-G42 Cutter Compensation, Imaginary Tool Points. G70-G73 Multi-Repetition Cycles. G90-G94 Canned Cycles Roughing & Facing (if required). G80 - G89 Canned cycles. G96-G97 Constant Surface Speed Control. G32 & G92 Threading Cycles.</p>		

Day 3	Start	Finish
	9:00am	4:00pm
<p>Test Piece 2 (Drill - Rough Bore - Finish) G74-G75 Canned Cycles for Grooving & Drilling. Test Piece 3 (Side Grooving - Face Grooving - Drilling) G32-G92 & G76 Threading Cycles. Test Piece 4 (Rough Turn - Drill - Bore - Thread – Part) C & R Chamfer Corner Radius Function. Test Piece 5 (Turn using direct Drawing) Inputting and Outputting Programs (RS232 / Mem Card) Backup control P/S Alarms Brief Explanation of Macro Programming & uses. (See also Macro Course). Program your own component (if time left)</p>		

Day 4	Start	Finish
	9:00am	4:00pm
<p>Introduction to C Axis and Driven Tooling Cylindrical Interpolation Polar Coordinate Milling Side Canned Cycles Face Canned Cycles Balance Milling Y Axis Milling Thread Milling Sub spindle work</p>		

Day 5	Start	Finish
	9:00am	4:00pm
<p>Wait Codes Multi path functionality Simple passover Part transfer Spindle Synchronise Balance turning Unloading parts Various examples Soft push torque functions</p>		