



KLEIOS[®]
TECHNOLOGIES

LEARN. EXPLORE. ACHIEVE

CNC PART PROGRAMMING TRAINING
COURSE SYLLABUS

KLEIOS TECHNOLOGIES[®]

CONTACT NO: +91 7598101777

MAIL ID: contact@kleiotechnologies.com

www.kleiotechnologies.com

COURSE SYLLABUS

Sl. No.	Topics
1	Introduction to Computer Aided Manufacturing <ul style="list-style-type: none">• Overview of CAM• Benefits of CAM
2	NC Procedure <ul style="list-style-type: none">• Process Planning• Part Programming• Part Program entry• Proving the Part Program
3	Part Program Preparation Methods <ul style="list-style-type: none">• Programming in the Planning Development• Workshop Programming• Manual Programming• Computer Assisted Programming
4	Part Programming Geometry for CNC Lathe <ul style="list-style-type: none">• Co-ordinate system for a CNC Lathe• Zero points and Reference points• NC related Dimensioning
5	CNC Lathe Programming <ul style="list-style-type: none">• NC program build up• Part Program formats• Miscellaneous and Preparatory functions• Structure of a CNC Program• Programming using Linear interpolation• Programming using Circular interpolation• Programming using Canned cycles
6	CNC Lathe Programming Operations <ul style="list-style-type: none">• Facing• Turning

	<ul style="list-style-type: none">• Step Turning• Taper Turning• Multiple Turning• Contouring• Pattern Repeating• Grooving cycle• External Threading• Internal Threading• Peck Drilling• Step Boring• Boring
7	Part Programming Geometry for CNC Mill <ul style="list-style-type: none">• Co-ordinate system for a CNC Mill• Zero points and Reference points• NC related Dimensioning
8	CNC Mill Programming <ul style="list-style-type: none">• NC program build up• Part Program formats• Miscellaneous and Preparatory functions• Structure of a CNC Program• Programming using Linear interpolation• Programming using Circular interpolation• Contouring through Subprogram• Mirroring• Drilling• Pocketing• Rotation• Scaling• Datum Shift