

## 1) CNC Turning (Lathe/VTL)

### Syllabus for Turning:

- Details about Machine Axis
- Details about Machine Parts
- Types of Operations:
  - Facing, Turning, Step Turning
  - Chamfer, Taper Turning
  - Radius Turning C.W & C.C.W
  - Use of Angle Method
  - Boring, Step Boring,
  - Radius and Taper boring,
  - Box Facing & Turning (G77&G79)
  - Stock removing cycles G71 & G72
  - Pattern Repeating Cycle G73
  - OD & ID Threading in G78
  - Taper Threading using G78
  - OD & ID Threading in G76
  - Taper Threading using G76
  - Grooving & Grooving cycle G75
  - T.N.R.C- (G40, G41, G42)
  - Drilling and Tapping (G74 & G33)
  - Bar Feeding
  - Double Side Operation.
  - Drawing Symbols
  - Speed & Feed calculations
  - Tool Setting and Insert details



## 2) CNC Milling (HMC/VMC)

### Syllabus for Milling:

- Details about Machine Axis
- Details about Machine Parts
- Work Coordinates (G54 - G59)
- Types of Operations:
  - Marking, Radius C.W & C.C.W
  - Facemill, Endmill
  - Subprogram
  - Canned Cycles ( G73 - G89)
  - Drilling Cycles
  - Spot Drill (G81)
  - Peck Drill (G83)
  - High Speed Peck Drill (G73)
  - Counter Boring/Chamfer(G82)
  - Tapping Cycles
  - Left/Right Hand Tap(G74, G84)
  - Boring Cycles
  - Boring (G85,G86,G88,G89)
  - Back Boring (G87)
  - Cutter Radius Compensation - (G40, G41, G42)
  - Mirror, Scalling, Plane selection
  - Drawing Symbols
  - Speed & Feed calculations
  - Tool Setting and Insert details



### Advantages:

- 100 % Job oriented course.
- Training conducted only by experienced professionals.
- Practical oriented Training based on Industrial needs.
- Practical classes are taken in our own machine shop.
- Hands on training in measuring instruments and gauges.
- Assistance for getting jobs in Abroad.
- Accommodation will be arranged for out station students.
- Part time and week end classes also available.
- Industrial visits will be arranged.
- Convenient class timings for company workers.
- Classes are taken in multiple languages.
- Life long Job Assistance.
- Job will be arranged in Chennai, Bangalore, Coimbatore, Trichy and Hosur.

### Course Duration:

Full Time : 25 Days  
Part Time : 35 Days

### Course Timings:

Full Time :  
10 a.m to 4 p.m  
Part Time :

2 Hrs between 10 a.m to 8 p.m

**"Weekend classes available  
for college students"**

# Thiruvalluvar CNC Training Centre



"Your path to Success begins here"



### Head Office

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