ACG Cares Foundation, Mumbai

CNC/ VMC Operator Training program

Objective of Training Program:

To enhance and provide necessary skill inputs for making employable, life skills and forward and backward linkages for the trained youth for sustainability of the efforts and better quality of life.

Target Group:

Target group was selected as per the villages selected by the ACG Cares Foundation:

- Full-time or part time job holder
- Unemployed youth
- Housewives
- Literate and illiterates
- Community mobilizes and leaders in the villages

Beneficiary identification process:

Beneficiaries was selected on the basis of following parameters:

- Youth groups from the villages
- Age group
- SHGs operational in the villages, if any and their activities
- Educational background
- Drop outs from the schools/colleges
- Existing status (working, on working, undergoing education, selfemployed,etc.)
- Existing skills, if any
- Family income
- Farmers club

Technical Trainers:

- Mr. Satish Sagdeo, MBA(HR)
- Mr.Rahul Suryavanshi
- Mr. Ujwal Tawade, M.Sc(Nuclear science)
- Mr. Ganesh Khamgal,MSW

Syllabus of the Training Programme:

- Introduction of Machines
- NC & CNC machine
- Advantage & Disadvantage of CNC Machine
- Classification of CNC Machine
- Types of CNC Machine
- Advance Machine System
- Special Features on CNC Machine
- Fundamentals of CNC programming
- CNC feedback control system
- Co-ordinate system
- CNC Language-Programme Configuration
- Preparatory Functions
- Miscellaneous Functions
- Programming on Fanuc & Siemens CNC Milling Machine
- Sub Programming on Fanuc & Siemens CNC Milling Machine
- Programming with CRC Fanue & Siemens
- Canned Cycles on Fanuac CNC Milling Machine
- To on the CNC Milling Machine
- Key board details of computer unit
- Key board details of operating panel
- Offset setting of Fanuc CNC Milling
- Machine Zero & Work Zero
- CNC Cutting Tool Material
- CNC milling tools & tool holders
- CNC tool selection
- CNC Process Planning
- CNC Milling Inserts & Geometry
- Surface Texture & machining symbols
- Lubricants & Lubrications
- Milling time calculation
- Broach & Broaching Method
- Linear Indexing
- Surface texture measurement
- Coolant or cutting fluds
- Helix & Spiral
- Spiral Milling Calculations
- Vermier Gear tooth caliper
- Rack-Elements & Types
- Rack Calculations
- Types of Gear
- Worm & worm wheel
- CAM-introduction & types
- Drum CAM Calculation
- Plate CAM calculation
- Chordal Generating Methods

- Clutches
- Important Technical Turns used in Industry
- Quality Control
- Methods of CNC Programming
- Siemens Control Programming
- Measurement
- Outside Micrometer
- Vernier Caliper
- Turning Cycle on CNC Lathe
- Drilling Cycles on CNC Milling Machines
- Milling Cycles on CNC Milling Machine
- Programme Configuration
- Gauges
- Tooling & Speed, Feed Calculation

Expected outcome:

Outcome of training is expected as follows:

- Wage employment
- Self-employment
- Skill up gradation
- Multiskill development
- To provide skill manpower to local industries.

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