

ACTIVITIES TO BE PERFORMED BY MSME, DI, WORKSHOP, LUDHIANA DURING THE YEAR 2012-13

Name of course	Eligibility	Duration	Intake capacity	Fee (Rs.)	Course content
SDP on CNC programming and Machining with Auto Cad	10+2and above	180 Hrs (3hrs. daily) Morning & Evening Batches April To June July To Sep Oct To Dec Dec To March	18	10,000 For General & 5000/- for SC/ST Candidate	2-D, 3-D drawing by using Auto cad, Editing , modify , co-ordinate calculation, Programming on CNC turning, Milling on Fanuc Control Simulator& milling on heidenhain simulator, and demonstration on CNC lathe, VMC and HMC machines on different operations by using Sinumeric control.
6 months machinist course	8th and above	April To September & October TO March	10	1200 for Gen. Candidate & 600 /- For SC/ST candidate	Introduction of Lathe machine, Milling machine & function of each parts of machine, Different operations on conventional machines i.e. Lathe, Milling, Surface Grinder, Tool & Cutter Grinder, and Cy. Grinder & Broach Sharpening machine. Introduction of Measuring instruments Study of engineering drawings. Practical exposure for manufacturing. of Broaches, Punches & Gauges etc.
Tool & Die Designing and Making	10 + 2 and above	Five Months (4Hrs. daily) June To November & November To March	20	20000/- For Gen. Candidate & 10000/- for SC/ST Candidate	Safety precautions while working in workshop. Introduction about engineering drawings and their study, Introduction about geometrical symbol and their implementation, Introduction about measuring instruments and their uses. Limits and fits and their application, Practical exposure on conventional machines i.e. lathe, milling, surface grinding m/c, Cy. grinding M/c, T & cutter Grinding m/c, 2-D and 3-D drawings on AutoCAD, Introduction about tool designing, types of tools, tools components, operations and machines involved for making tools, Introduction about power presses and their classification, Types of stoppers, pilot s and their classifications, introduction about drawing, bending, forming, piercing, design parameter for shearing, heat treatment processes, introduction about tool material and their physical properties, Introduction about die plate, punch, bush and pillar, calculation between dies and punches, Material calculation, assembling of tools , machining cost calculation, points to be kept in minds before trial, Modification if any, Projects preparation .

