

Application No:

Date: 30-11-2025



Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram

Exam (Level 3- Skill Test/ Trade test): Junior Technician- Design

Skill Test option: CNC router

Instructions

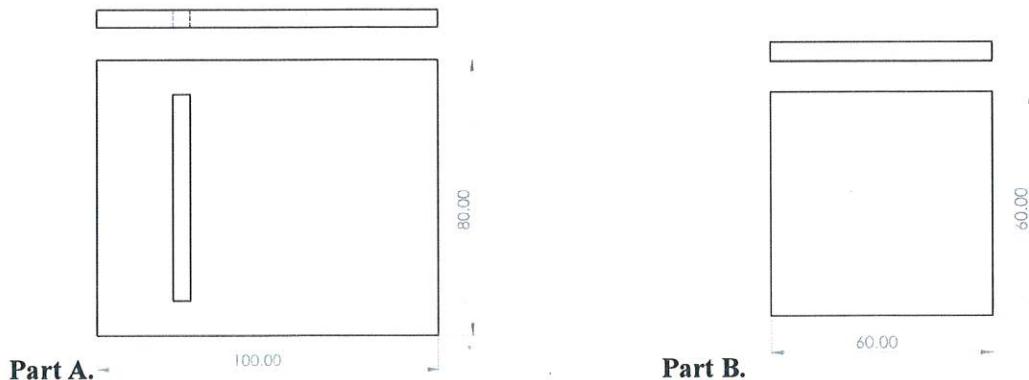
1. **Create the part file or drawing files** shown in Part A and Part B using AutoCAD or SolidWorks.
2. **Perform pre-processing** by preparing the files according to the machine selected in the trade test option. (G code can be written in **Notepad** for the path generation)
3. **Carry out post-processing** by selecting suitable machine tools such as, CNC Router, Laser Cutting machine or PLA-3D-printing based on the prototype requirements.
4. **Submit the completed prototype assembly** for evaluation as referenced in Part C.

Note: 1. Mechanical tools can be used for assembly operations (files, Hackshaw grinding tool, Clamping tools etc)

2. All dimensions are in mm

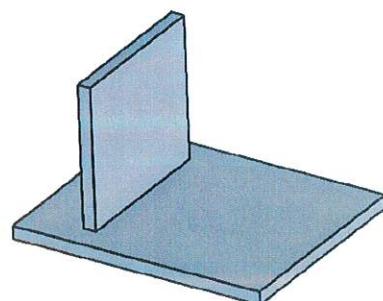
Question:

1. Create the part file with required interference tolerance between part A and Part B during assembly (Please consider Sheet thickness as 5.6 mm)



Part A.

Part B.



Assembled Part C.

Signature with date: