



Trade: Mechanical CADD 2024, Day 1

Task: Assembly modelling, drawing, and animation

Time: 6 hours

Marks: 30 points

1. Given:

- a. Dimensioned parts drawings of the cabinet latch parts
- b. Cabinet latch housing and hardware 3D models in .step file format

2. Task:

- a. (10 points) Model the parts described in the drawings provided. Save your files to your USB flash drive in .step file format.
- b. (10 points) Assemble your modeled parts and the parts provided on your usb drive (the housing, rivet, spring, and screw). Create an assembly drawing with an exploded view. Include a bill of materials and a note reporting the total volume in cubic centimeters to two (2) decimal places. Save your drawing as a .pdf on ANSI B sheet size.
- c. (10 points) Create a 15 second animation of the assembly showing the movement of the parts. Save your animation in .mp4 or .avi format

Ensure all competition deliverables are clearly marked with your competitor number. Drawings must include your competitor number in the title block, and files must have your competitor number at the beginning of the file name.