

Results Assessment Task 2

Folding Step Ladder

What went well? :

Overall I found the construction of the ladder a straightforward process that posed few challenges. The preparation of materials and marking out was simple; I was able to make more efficient use of my time through using power tools and machinery. This also allowed more accuracy in my cuts. I was easily able to follow the diagrammatic instructions and had no problems with the base design of the ladder.

What went Poorly? :

I found during the construction process of cutting the angles for the back frame support to be challenging. To overcome this difficulty I decided to use a table saw instead of using a hand plane. I also had some difficulties setting the angles for the treads using a router.

What would you change? :

I used a jig with the radial arm saw to cut my trenches for the treads; in future I would simply use a router jig. I changed the type of hinge for the stepladder for aesthetic reasons I also added a latch to either side of the ladder to secure it when not in use. I also changed the back leg frames design, instead of just a 5mm rebate on the back brace I rebated both the frame and the brace to 9.5mm so they were flush. This was also done for aesthetic reasons. In addition to these already made structural changes, I would add grip tape to the tread of the steps, to ensure that the ladder meets occupational health and safety standards.