

HSC 2002 – Industrial Technology

Evidence of Solutions to Problems in Production

Band 5/6

Demonstrates and explains how solutions to problems in major project production were addressed.

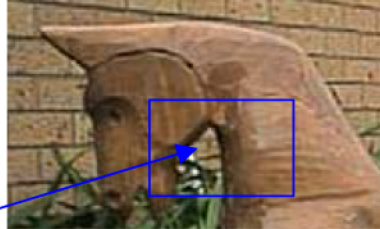
Breakages

Breakages directly relates to mistakes and accidents confronted with, and throughout the process of this job. Overtime various mistakes were made which at times increased costs, and slowed production down. Examples of breakages include

- a. The neck blocks I designed and purchased, seemed perfect on paper, however, after purchasing this wood, and completing the initial stages I found that these neck block were to small, and I had to purchase larger pieces costing me roughly an extra \$10
- b. Another incident whereby breakages are apparent can be seen with the situation of whether to buy or make the teeth of the horse. Throughout the researching period the available teeth for sale were quite small, not unique and evidently was unable to show the shape of the teeth. This breakage therefore cost me up to \$5 extra i.e. to cover costs and the new materials and time.

Problems

Various problem I faced include:

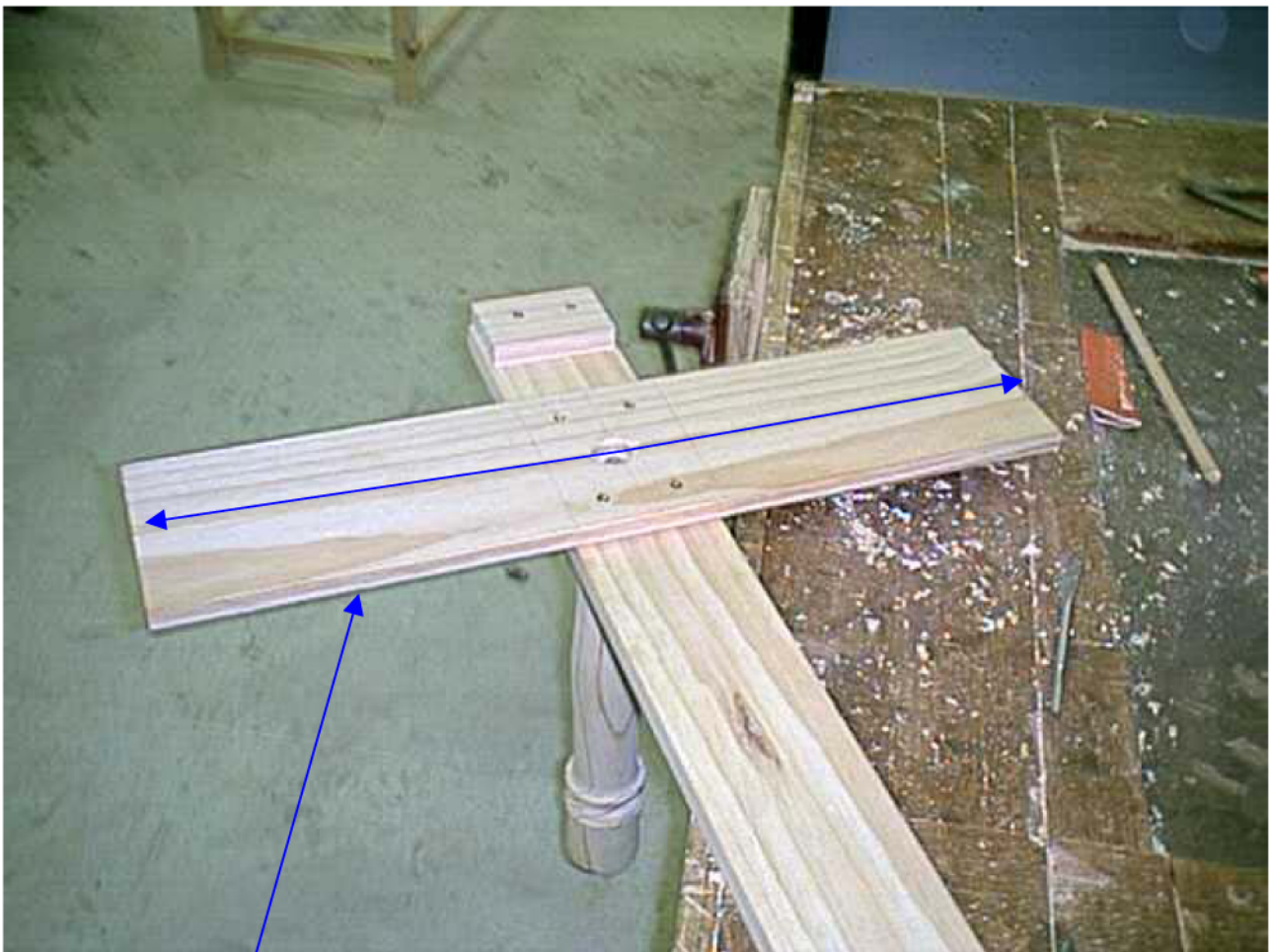


Problem	Solution
The first problem I faced was, that the gap between the head and neck of the horse was very small, therefore not allowing me to get any effective tools right in there such as a spoke shave or the rotary rasp to clean it up.	I had to resort to about 5hours extra labour, using only a wood hand rasp and carnet paper. This was a very frustrating procedure, but was the only way to overcome this problem.



Another feature of this project, which is very appropriate, is the extra length added to the supports of the stand to make this a safer job

This job initially was going to have a total length of 500mm to support the stand, but before purchasing materials I decided it would be advisable to increase this to 600mm to increase safety by making this job sturdier



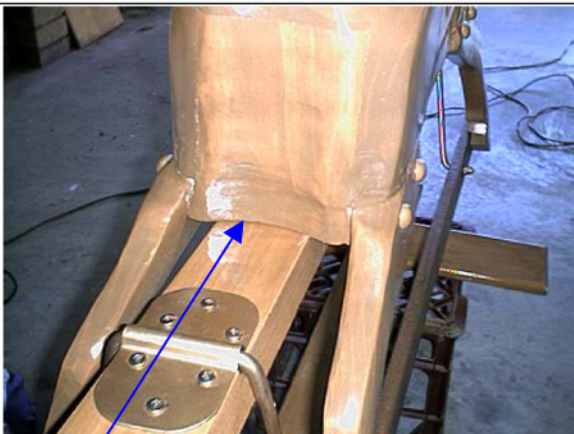
This length was increased to create a safer job by providing more support and balance for this structure

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Problem	Solution
<p>This picture above must be capturing the most annoying process I had to undergo, throughout the whole course of this job. The problem I faced at this stage was that the surface of the horses' head was not flat, therefore creating gaps, when putting it onto the body. The process was considered annoying, again I could not use any real effective tools, and I was restricted for room.</p>	<p>The solution I found to this problem was by using a miniature plan, and working at it, in small amounts rather than trying to take a lot of at once.</p>



Problem



Solution

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Problem	Solution
When attaching the horse to the stand, via the side rails and the swing irons, I found that the horse was slightly missing the stand, due to an error in my calculations, which were approximately 10mm off.	I solved this problem by replacing the existing swing iron hole with one that was now located 25mm away from the old hole (to the right) and 20mm lower than the original in which the horse will be allowed to go higher and swing freely.