

Justifies the selection of some industrial processes and equipment in the development of the major project.



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Use of appropriate industrial processes & equipment

PROCESSES USED IN THE CLASSROOM

PROCESSES	EQUIPMENT	SAFETY APPLICATION
Cutting out wood from templates	Bandsaw & scroll saw	Plastic glasses, dust extractor
Cutting square ends	Compound mitre saw	Plastic glasses, ear muffs
Reducing woods thickness, revealing grain patterns	Thicknesser	Eye protection, ear muffs
Smoothing wood	Orbital sander, belt sander, sand paper	Dust mask, dust extractor & eye protection
Shaping joints & components	Grinder (sander), files, belt sander, router, spokeshave & plane	Plastic glasses, ear muffs, dust extraction
Drilling & screwing	Hand drill, drill press, Phillips head screw driver	
Cutting specific joints	Dozuki fine precision saw	Eye protection
Joining components	Dowel joints, dozuki saw, chisel & bandsaw	Eye protection, ear muffs
Rounding back legs, rockers, seat & armrests	Spokeshave, router, grinder sander	Goggles, ear muffs
Shaping seat	Grinder (cutter & sander) spoke shave & router	Eye protection, ear muffs & dust extractor
Finishing	Sand paper, rag	Eye glasses, dust mask



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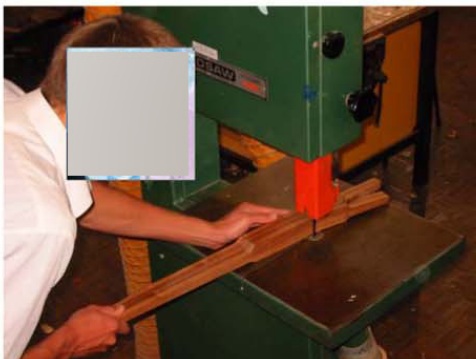
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Evidence of industrial processes in the classroom

LATHE

The lathe has a high-speed rotation, which allows you to circularly shape timber. I used the lathe to round over the front legs. As you can see the tool is held firm and resting on the tool rest for total control, the dust extractors are on to remove dust particles from the air.



BANDSAW

I used the bandsaw to cut most of my components out. [REDACTED] uses the bandsaw to shape various pieces himself. The bandsaw proved very useful in accurately cutting along drawn lines, making shaping the spindles in this picture relatively easily.



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BENCH PLANE

This particular plane was very useful in getting flat surfaces & Squaring up timber. In this picture I am shaping up a spindle.



SPOKESHAVE, CHISEL & PLANE

The spoke shave has been one of the main shaping tools I have used to shape the spindles & back legs, it cuts smoothly resulting in a clean carve. The chisel has helped me trim up edges, joints & surfaces sharp and precise it made a clean joint possible.

OILING

There are 2 finishes that contain a mixture of oils and estapol that I used for the finish created by _____,

- 1 contains -1/3 urethane
 - 1/3 raw tung oil
 - 1/3 boiled linseed oil
- 2 contains -2 handfuls of shredded beeswax
 - 1 Gallon oil mixture

These finishes allow an indefinite shelf life