

Safe use of equipment: General wood 2: Industrial Technology

In this activity you will learn about OH&S risk management, in particular implementing safe use of equipment.

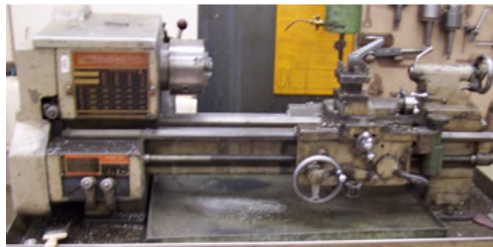
This material addresses aspects of the following syllabus outcomes:

- 4.1.1 A student identifies and applies fundamental OH&S principles when working with materials, tools and machines.
- 5.1.1 A student identifies, assesses and manages the risks and OH&S issues associated with the use of a range of materials, hand tools, machine tools and processes.

Extract from: Years 7–10 Industrial Technology Syllabus © Board of Studies NSW 2003.

Safe use of equipment

Prior to actually working on materials with drills, lathes or sanders, certain precautionary steps have to be taken when setting up.



lathe

Activity: Safe use of elementary equipment

Place the appropriate steps from the list below into the table next to the task to be carried out. Try to insert them in the correct sequence.

Precautionary setting up steps:

- Inspect square stock for splits, knots or other defects.
- Check power lead for damage prior to plugging in to the power point.
- Mount the timber firmly between the centres with the live centre prongs seated in diagonal saw cuts.
- Grease the dead centre prior to mounting stock.
- Plane corners from stock to prevent splintering.
- Set tool rest to centre height and as close to the work as practicable.
- Rotate the work manually to check clearance and for easy rotation before switching on.
- Check correct PPE is worn.
- Check that the paper is not torn or damaged and is firmly clamped to the rubber back.

- Check speed is appropriate to the work being carried out.
- Check all guards are in place.
- Make sure table is at correct height.
- Is a clamp necessary to hold work? If so, clamp work firmly to the table.
- Make sure the correct size drill is firmly clamped in the chuck.
- Check that the power lead will not get in the way while working.

Task	Precautionary setting up steps
Sanding with an orbital sander	
Drilling using a drill press	
Turning between centres with a lathe	