



3055 BA SANGAM COLLEGE

PH: 6674003/9264117 E-mail: basangam@connect.com.fj



WORKSHEET NO: 19

Subject: Applied Technology	Year/Level: 11
Topic: portable tools	DATE: 05/10/21

LESSON NOTES:

Portable Power Tools:

Are basically hand tools which may be driven by an AC or DC electric current or by compressed air. As they are not fixed to a floor or a bench, and are relatively compact, they can be easily transported to the worksite.

Machine Tools:

Are tools usually fixed in place, or are too large to transport easily, which requires the user to take the job to the machine.

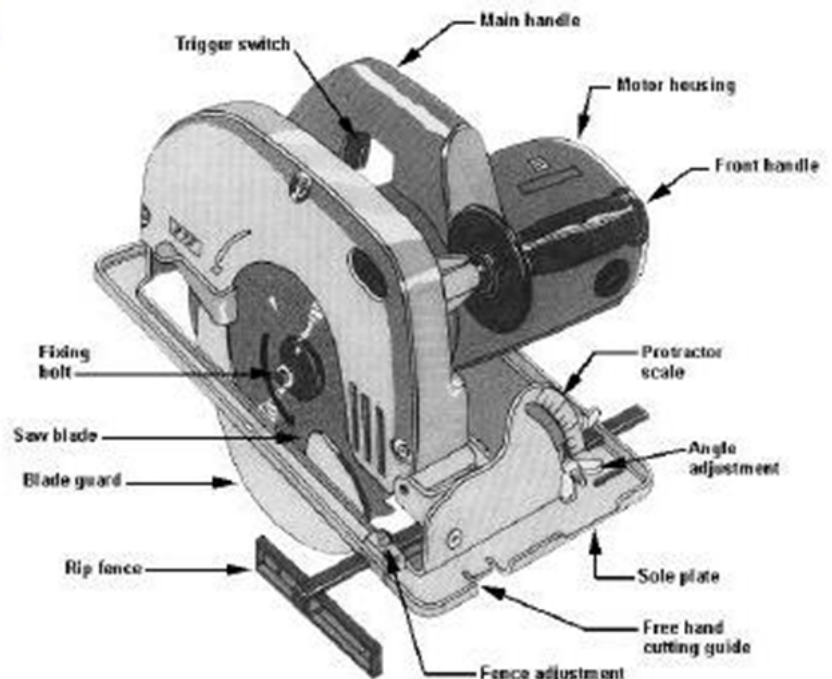
Power tools are grouped into three main categories

1. Cutting
2. Fixing
3. Finishing

PORTABLE CIRCULAR POWER SAW

There are many types of powered saws used within the building industry such as the jig saw, chain saw, brick cutting saw, mitre saw, and sabre saw, with the portable circular saw being the most common. Circular saws are available in a variety of sizes (184 mm to 260 mm), with the name of the saw being governed by its blade size, and may be used for many cutting operations such as:

Ripping / Crosscutting
/Compound cutting / Grooving /
Rebating / Trenching



SAFE OPERATION AND USE OF THE PORTABLE POWER SAW

To use the portable power saw CORRECTLY and SAFELY you MUST:

- Check all adjustments are tightened before use; the saw must be fitted with a hood guard and a spring guard. The spring guard below the guide plate must operate freely and return to cover the blade when not in use;
- Never tie the guard back; operate the saw with both hands; do not force the saw. If it stalls or loses speed, free the blade by pulling the saw back. Wait for the saw to regain full speed before continuing the cut;
- After the cutting operation is complete, check to ensure the guard springs back to the closed position before placing on any surface;

STUDENTS ACTIVITY:

1. Differentiate portable power tools and machine tools:

2. State two purpose of the saw guard.

a. _____

b. _____

3. List down 5 safeties that one need to be aware of when operating or using the portable power saw.

Reference:

Year 11 Applied Technology Textbook, MEHA.