PENANG SANGAM HIGH SCHOOL
P.O.BOX 44, RAKIRAKI

LESSON NOTES-12

School: **PENANG SANGAM HIGH**   Year/Level: **11**

Subject: **APPLIED TECHNOLOGY**

Strand	AT 11.5. MACHINES AND ENGINES
Sub Strand	AT 11.5.1 Motorized machines and engines.
Content Learning Outcome	AT11.5.1.1 Demonstrate knowledge on parts, attachments and process and develop practical skills in correct and safe use of motorized portable machines.

POWER TOOLS

Considered to be a recent innovation evolving over the past fifty years or so. At first these power tools were heavy, dangerous and lacking safety features. Today power tools are highly sophisticated, lightweight and double insulated to prevent electrocution.

PORATBLE POWER TOOLS

Are basically hand tools which may be driven by an AC or DC electric current or by compressed air.

MACHINE TOOLS

Are tools usually fixed in a place, or are too large to transport easily.

Power tools are grouped into three main categories.

1. Cutting.
2. Fixing.
3. Finishing.

PORATBLE CIRCULAR POWER SAW

Portable circular saw is the most common saw. Circular saw are available in a variety of sizes (184mm to 260mm) with the name of the saw being governed by its blade size, and may be used for many cutting operations such as ripping, cross cutting, compound cutting, grooving, rebating and trenching.

SAFE OPERATION AND USE OF THE PORATBLE POWER SAW

- Keep fingers and hands clear from the blade.
- Keep the work area clean and free from off- cuts.
- Always switch off before removing the saw from the timber.
- Never use the saw above your head.
- Do not stretch to make a cut.

SHORT ANSWER QUESTIONS

1. Which tools are basically operated by DC or AC electric current or by compressed air.
   _____
   _____

2. Name any two categories of power tools.
   _____
   _____

3. Which tools is used for many cutting operations such as ripping, cross cutting, compound cutting, grooving, rebating and trenching.
   _____
   _____

4. List two safe operation and use of the portable power tool.
   _____
   _____

THE END