

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

**LESSON NOTES-15**

**School: PENANG SANGAM HIGH**

**Year/Level: 11**

**Subject: APPLIED TECHNOLOGY**

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

**SAFE OPERATION AND USE OF THE PORTABLE POWER PLANER**

To use the portable power planer **CORRECTLY** and **SAFELY** you **MUST**:

- Always wear safety glasses and operate the machine with both hands;
- Rest the toe of the plane on a block of scrap timber when not in use to prevent accidental contact with the cutters and to provide protection to the cutting edges;
- Keep fingers clear of the underside of the base, cutters and exhaust chute.

**PORTABLE ELECTRIC BELT SANDER**

The portable electric belt sander is a light easily used tool weighing only between 4.5 and 6.8 kg depending on the type and model.

**SAFE OPERATION AND USE OF THE PORTABLE ELECTRIC BELT SANDER**

To use the portable Electric Belt sander **CORRECTLY** and **SAFELY** you **MUST**:

- Do not switch the machine on or off while it is resting on the work.
- Allow the machine to gain full speed before lowering it carefully on to the work. Lower the sanders so that the back part of the belt touches first, then quickly bring it to the horizontal position

## **ORBITAL FINISHING SANDER**

The orbital finishing sander is a small electric, hand-sanding machine for fine finishing work. It is driven by a small electric motor which supplies power to a base plate which moves with the flat orbital (circular) motion.

## **JIG SAW**

This is a light tool used mainly for making internal cuts not possible or practicable with the band saw or circular saw. It can also be used for straight line cutting, cross cutting and angle cutting.

### **SHORT ANSWER QUESTIONS**

1. Name the tool which is lightly easily used and weighing only between 4.5 and 6.8kg depending on the type and model.

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2. Name the tool which is used for making internal cuts.

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3. List only two safety operation and use of the portable electric belt sander.

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4. Explain what orbital finishing sander is.

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5. Name the tool which can be used for straight line cutting, cross cutting and angle cutting.

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**THE END**